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REPORT

Source Area 11
2020 Groundwater Report

Southeast Rockford Groundwater Contamination Superfund Site
Rockford, Illinois

Illinois Environmental Protection Agency

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CDM Smith

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Section 1
Introduction

CDM Smith Inc. (CDM Smith) prepared this report for the Illinois Environmental Protection Agency (Illinois EPA) to document groundwater quality for Source Area 11 (Area 11) of the Southeast Rockford Groundwater Contamination (SERGC) Superfund site (Illinois ID No. 2010300074, CERCLIS ID No. ILD981000417). The SERGC site is in Rockford, Winnebago County, Illinois, as shown in **Figure 1.** The work being performed by CDM Smith under contract to Illinois EPA is part of Operable Unit (OU) 3, which is state lead, federally funded through cooperative agreements.

Groundwater monitoring at Area 11 is being conducted as a long-term remedial action (LTRA) for the leachate component of the overall remedy, where "leachate" is defined in the OU3 ROD as shallow, contaminated groundwater within the boundary of the source area. The other component of the Area 11 remedy is the soil component, which is on a separate track currently in the pre-design phase. The leachate and soil components are inherently related and previously advanced together on the same track but were separated for the most part in 2014 when LTRA started for the leachate component. Additional information regarding the soil and leachate components is included in **Section 1.1**.

The first two quarterly rounds of groundwater monitoring in 2020 were conducted in accordance with the Quality Assurance Project Plan (QAPP) Addendum and Sampling and Analysis Plan (SAP) for Area 11 Long-Term Remedial Action Monitoring (CDM Smith 2014). The QAPP and SAP were updated per letters from CDM Smith to the U.S. Environmental Protection Agency (U.S. EPA) (CDM Smith 2019). The third and fourth quarterly sampling rounds in 2020 were conducted in accordance with the Final QAPP and SAP for Source Area 11 Long-Term Remedial Action Groundwater Monitoring (CDM Smith 2020).

The report focuses on the methods and procedures used during the 2020 quarterly monitoring events, presents the data for the groundwater elevation measurements and quarterly analytical results, summarizes information from monitoring events conducted from 2011 to 2020, and concludes with an assessment of whether contaminant concentrations are on track to meet RGs.

1.1 Area 11 Background Information

Area 11 is located on the northeast corner of Harrison Avenue and Eleventh Street in Rockford, Illinois. Area 11 is one of four known and identified source areas that are part of the SERGC site (**Figure 1**). Area 11 was identified as one of the SERGC source areas during the OU2 RI as documented in the OU2 Record of Decision (ROD) (U.S. EPA 1995).

Area 11 is situated in a mixed light industrial, commercial, and residential area. Area 11 itself currently consists of greenspace and light industrial property. **Figure 2** depicts the outline of Area 11 as it was defined in the OU2 RI report (CDM Smith 1995).

The northern third of Area 11 includes a portion of an Auto Zone parking lot and vacant land consisting of an unused parking lot and greenspace that was formerly occupied by a tire shop which was demolished around 2017. The middle third of Area 11 is occupied by Accurate Metals – Illinois (AMI), a specialty metal fabricating operation. The AMI building was formerly occupied by Rohr Manufacturing and prior to that, Rockwell Graphics Systems.

The southern third of Area 11 is greenspace except for the southeast corner which is an entrance drive to the AMI facility. The 75,000-square foot greenspace is currently owned by the City of Rockford, but was formerly Rockford Varnish, Villa Di Roma restaurant (the building was formerly part of Rockford Varnish), H&H Wood Products and Pallets, Rockford Coatings, and adjacent parking areas. Following the City's purchase of the property in 2014, all asphalt and above ground structures (and some shallow subsurface structures), were removed prior to the Harrison Avenue reconstruction that started in 2016. Some concrete foundation walls in the vicinity of the former buildings and ASTs are known to remain, and it is generally believed that most other subsurface structures remain. After completion of the Harrison Ave. construction in 2018, the entire AOI was covered with topsoil and seeded, and a handful of saplings were planted.

On **Figure 2**, the greenspace is identified as an Area of Interest (AOI) because previous Area 11 investigations (CDM Smith 2009; 2013) indicate it is within this specific portion of Area 11 where all or most waste was deposited, and continuing sources of contamination may still exist.

Potential contaminant sources include eight former aboveground storage tanks (AST) and ancillary systems (i.e., piping) that were located east of the former Rockford Varnish facility. **Figure 1** in **Appendix A** shows the approximate locations of the former ASTs and buildings with superimposed locations of the existing onsite monitoring wells. The ASTs were removed sometime between July 2003 and April 2005 based on Google Earth Pro historical imagery. The specific chemicals that were stored in individual tanks is not known. The OU3 RI report mentions other potential sources including a "bunker" used by Rockford Varnish that seeped a tar-like substance and a dumpster used by Rockwell Graphics that leaked cutting oils.

The geologic stratigraphy at Area 11 is fine- to medium-grained sand down to about 30 feet below ground surface (bgs), followed by medium- to coarse-grained sand with gravel down to about 75 feet bgs. Below this is a silt and clay layer believed to be around 10 to 15 feet thick, based on the presences of what appears to be the same unit observed in MW114B at a similar elevation (656 feet above mean sea level [msl]), located 0.25 mile south of Area 11; however, the silt and clay unit is not present down to 640 feet msl in MW126B, located 0.4 mile west-southwest of Area 11. The depth to groundwater is approximately 30 feet bgs and varies seasonally. A geologic cross section is provided with the site conceptual site model (CSM) included in **Appendix A**.

Groundwater in the unconsolidated material at Area 11 enters the eastern edge of the site flowing in a northwesterly direction before eventually turning west, and then west-southwest as it exits the site's western boundary. Further downgradient, groundwater flow is directly to the southwest and the Rock River. This gradual shift in groundwater flow from the northwest to the southwest in the vicinity of Area 11 is responsible for the "banana" shape of the historic groundwater contaminant plume. This plume was documented by CDM Smith during the

remedial investigation phases and is critical to understanding contaminant migration patterns in groundwater at Area 11.

In accordance with the OU3 Record of Decision (ROD) (U.S. EPA 2002), the Area 11 remedy selected for contaminated soil is soil vapor extraction (SVE) and the remedy for "leachate" (i.e., shallow, contaminated groundwater within the boundaries of the source area) is no action, with groundwater monitoring and institutional controls. The ROD did not propose a remedial alternative for the treatment of leachate on-site because modeling indicated that groundwater would meet standards by the time it exited the source area. However, the ROD indicates that an air sparging component can be added to the remediation system if an improvement in groundwater quality is not observed.

Contaminants of concern (COC) listed in the ROD include benzene, ethylbenzene, methylene chloride, toluene, trichloroethene, and xylenes. However, based on the magnitude of the remediation goal (RG) exceedances in groundwater samples collected since 2008, ethylbenzene, toluene, and xylenes (ETX) are generally considered to be the primary COCs specifically related to Area 11.

Three rounds of pre-design investigation activities were conducted between 2007 and 2018. The first round was conducted in 2007/2008 (CDM Smith 2009) and the second in 2010/2011 (CDM Smith 2013). One common objective was to identify and characterize the source material locations in the vadose zone (i.e., where waste material was deposited) that are the targets of the SVE soil component remedy. However, the precise locations of the vadose contamination have not been located for various reasons including site access issues, buried debris, and the assumed small footprints (i.e., a couple feet in diameter at the water table) of the source material. Because most of the material released to the environment may have been spilled as chemical product, it is also possible that the spilled product has evaporated or degraded to the point that only trace amounts remain in the vadose zone. The number of individual sources present at Area 11 is not known but it is believed that at least two exist based on groundwater results. The Phase II Pre-Design Technical Memorandum (CDM Smith 2013) contains a comprehensive discussion of the nature and extent of groundwater contamination and the possible source locations at Area 11.

Pre-design objectives that were successfully achieved during the first two pre-design phases included defining the nature and extent of groundwater contamination at and downgradient of Area 11 for the leachate component remedy. As part of the pre-design activities, quarterly groundwater sampling was conducted (with several interruptions from 2011 through 2013), before changing to semiannual sampling in August 2014 for the start of the leachate component LTRA. These events have resulted in the soil component of the selected remedy remaining in the remedial design (RD) phase because the source hasn't been located, while the leachate component has progressed into LTRA.

From 2015 through 2018, semiannual groundwater monitoring under the leachate component LTRA was irregular due to various factors. For example, in 2015, only one round of groundwater sampling was performed due to contract issues and from 2016 to 2018, sampling activities were impacted by the Harrison Avenue construction, allowing only three rounds of groundwater sampling to be completed. Following completion of the Harrison Ave., construction, monitoring

well MW007 was installed on October 29, 2018, and semiannual sampling resumed in November 2018.

The third round of pre-design field activities was conducted for only the soil component in October 2018 (CDM Smith 2018). This phase of work was conducted after the area adjacent to Harrison Avenue had been cleared of buildings, structures, pavement, and road construction debris. The purpose of the activities was to locate and characterize contaminant source material in the Area 11 vadose zone after the removal of obstructions that impacted previous investigations. This phase of work was narrowly focused on areas immediately upgradient of highly contaminated groundwater observed in samples collected from MW004A, and downgradient of suspected point sources of contamination that had become accessible due to the completion of the construction activities. The planned activities included two trenches and one shallow test pit to be excavated followed by direct push soil and groundwater sampling. Details of the activities are documented in the Pre-Design Technical Memorandum (CDM Smith 2018). This third phase of pre-design work was not successful in identifying the location of contaminant source material at Area 11 because of buried obstructions believe to be foundations associated with the previously removed ASTs.

Based on the groundwater data collected from 2017 through 2019, it was determined that while contaminant concentrations had decreased within Area 11 in the areas where barriers to infiltration had been removed, contaminants (primarily ETX) were continuing to migrate offsite at least a short distance at concentrations above the RGs. It was decided that data from two years (2020 and 2021) of quarterly groundwater monitoring under the leachate component LTRA would be used to develop a revised CSM for Area 11 to assist with determining a path forward for the soil component RD. Because this work is separate from the leachate component LTRA, a separate technical memorandum to address the soil component remedy will be prepared later under a cooperative agreement executed for the soil component RD. However, if a soil component cooperative agreement has not been executed, the technical memorandum will be prepared as a separate report regardless.

Section 2
Field and Analytical Activities

Table 1 provides a summary of the groundwater monitoring sampling dates and wells sampled for the 2020 quarterly events. The first quarter was conducted in March, the second quarter in June, the third quarter in September, and the fourth quarter in December.

The current groundwater monitoring network includes 19 monitoring wells, as shown in **Figure 3**. Groundwater samples are collected from 9 monitoring wells during groundwater sampling events with the remaining 10 used only for water level measurements to provide better definition of groundwater flow at and around Area 11. The 10 water level only monitoring wells are not sampled for chemical analysis because they are located cross gradient to Area 11 and are not impacted by Area 11.

Sample collection from monitoring well MW130A, which is located downgradient of Area 4 and upgradient of Area 11, was added to the monitoring network starting in September 2020 to provide additional background data. MW130A was previously sampled from November 2009 to May 2018 as part of the Area 4 RA groundwater monitoring network. In May 2018, U.S. EPA and Illinois EPA determined that the RA was complete, and EPA deleted Area 4 from SERGC on September 30, 2020 (Federal Register 2020).

Water level only monitoring wells MW37 and MW38 were added to the water level only network starting in June 2020, followed by MW32, MW22A, MW125, and MW126A starting in September 2020. **Table 2** provides monitoring well construction details.

2.1 Groundwater Elevations

Depth to groundwater measurements were collected manually at each well prior to purging and sample collection, except for the September 2020 event, where applicable. Prior to the September 2020 event, three water level only monitoring wells were inaccessible and this round of water measurements was subsequently collected in October 2020. In addition, water levels for the December 2020 were collected on the last day of November.

An electronic water level indicator was used and decontaminated before and after each use. Potentiometric surface maps were prepared from the groundwater elevation data collected during the quarterly water level events in 2020, using data from the 18 monitoring wells screened in the upper portion of the unconsolidated materials (**Figures 4 and 5**). With the larger set of monitoring points during October and November, these events present a more accurate picture of groundwater flow patterns. The groundwater elevation data used to compile these maps is provided in **Table 3.**

2.2 Sampling Methods

The Area 11 monitoring wells were each purged using a submersible pump and pump controller capable of operating at low-flow rates. All wells were purged and sampled in general accordance with the applicable SAP.

For all wells sampled, field measurements of pH, temperature, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential were monitored with a flow-through multiparameter probe to identify the point stabilization was observed during purging. Parameter readings were recorded at 5-minute intervals and purging continued until the field parameters were observed to be within stable range for three consecutive readings. The stabilization requirements are provided as follows:

- pH: ±0.25 standard units
- Dissolved oxygen: ±10 percent
- Specific conductance: ±50 microsiemens per centimeter (µS/cm)
- Turbidity: less than 5 nephelometric turbidity units (NTU) or ±10 percent
- Temperature: ±0.5 C°
- Oxidation-reduction potential: ±10 millivolts (mV)

Final readings taken prior to sampling are provided in **Table 4,** and original data sheets listing all readings recorded during purging are provided in **Appendix B**.

Quality control samples specified in the applicable QAPP for each of the groundwater sampling events included one field duplicate per 10 (or fewer) investigative samples, one field blank per 10 (or fewer) investigative samples collected using non-dedicated equipment, one trip blank for each cooler shipped containing aqueous samples for VOC analysis and 1,4-dioxane analysis by Region 5 Analytical Service Branch (ASB) laboratory, and one matrix spike/matrix spike duplicate (MS/MSD) per 20 (or fewer) samples.

The field duplicate frequency was met for all parameter groups for all four quarterly events. The field blank collection frequency was met for 1,4-dioxane and VOCs for all four quarterly events, however field blank collection frequency was not met for the attenuation parameters (sulfate, nitrate, alkalinity, and methane) for the first two quarterly events. Even though the frequency criteria were not met for attenuation parameters, data quality objectives are not compromised as these analytes are not constituents of concern and the field blanks that were collected during the first two quarters did not have unusual detections of these analytes. A trip blank was sent with each cooler containing samples for VOC or 1,4-dioxane analysis (when analyzed by ASB as a VOC). Issues related to data quality are discussed in Section 2.4 and in the individual validation reports in **Appendix C**.

Field instruments were calibrated daily to the appropriate standards, in accordance with the SAP. The field samples collected for dissolved ferrous iron were run through a 0.45-micron inline filter attached to the sample tubing and analyzed in the field with a field test kit. New or dedicated

sample tubing was used for each discrete sampling location. The groundwater samples selected for laboratory analysis were collected directly from the pump discharge tubing into pre-preserved sample containers. The sample containers were provided by a commercial sample container vendor.

2.3 Analytical Methods and Laboratories

Groundwater samples for 2020 were analyzed for Target Compound List (TCL) VOCs by U.S. EPA Contract Laboratory Program (CLP) laboratories under Statement of Work (SOW) SOM02.4 or VOCs by Region 5 ASB laboratory using Standard Operating Procedure (SOP) MS023. Analysis of 1,4-dioxane was performed by the ASB laboratory in accordance with ASB SOP MS035 for low-level 1,4-dioxane, or by CLP under SOW SOM02.4 and MA: 3054.0 – 1,4-Dioxane Analysis with Lower [contract required quantitation limit] CRQL. See the end of this section for additional discussion regarding the analysis of 1,4-dioxane.

The U.S. EPA CLP used Chemtech Consulting Group and Pace Analytical Services laboratories for organic sample analyses. Tech Law Inc. (Tech Law) Environmental Services Assistance Team (ESAT), provided services to Region 5 ASB and STAT Analysis Corporation (STAT), Chicago, Illinois and Eurofins TestAmerica, Savannah, Georgia provided anions, alkalinity, and methane analyses. Field analysis of dissolved ferrous iron was performed in accordance with HACH Method 8146.

Analysis of 1,4-dioxane as a stand-alone semi-volatile organic compound (SVOC) was added to the Area 11 parameter list at the request of U.S. EPA starting with the November 2019 sampling event. Prior to 2012, 1,4-dioxane was part of the CLP VOC target compound list (TCL), but the analysis was problematic and resulted in frequent data rejection due to matrix interference. The analysis of 1,4-dioxane was subsequently placed on the CLP SVOC TCL and no longer analyzed, until requested by U.S. EPA, because SVOCs are not Area 11 COCs. The U.S. EPA Region 5 CLP representative should be contacted for additional information regarding the historical analysis of 1,4-dioxane through CLP.

2.4 Data Evaluation and Usability

A data evaluation/validation review was conducted on the analytical data for the four 2020 quarterly groundwater monitoring events. Quality assurance objectives for measurement data are expressed in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity (PARCCS). The PARCCS parameters characterize the quality of the data and are called data quality indicators (DQI). The DQIs provide a mechanism for ongoing quality control (QC) and evaluating and measuring data quality throughout the project. The measurement performance criteria are outlined in the 2014 QAPP/SAP Addendum (CDM Smith 2014), modified per letters from CDM Smith to U.S. EPA (CDM Smith 2019), and the August 2020 QAPP/SAP update (CDM Smith 2020).

Reviewing the collected data is necessary to determine if data measurement objectives established in the QAPP were met. In general, the following data measurement objectives were considered:

- Achievement of analytical method and reporting limit requirements
- Adherence to and achievement of appropriate laboratory analytical land field QC requirements
- Achievement of required measurement performance criteria for DQIs (the PARCCS parameters)
- Adherence to sampling and sample handling procedures
- Adherence to the sampling design and deviations documented on field change notifications, if required

Data verification, data validation, and data assessment were used to verify adherence to the QAPP procedures and requirements and achievement of the measurement performance criteria of the PARCCS parameters. These assessments were used to reconcile the planned objectives detailed in the QAPPs against the investigation results. The outputs serve to verify that the collected data are of sufficient quality to support their intended use.

There were 25 sample delivery groups from the CLP laboratories, Tech Law, STAT and Eurofins. Validation was performed following the Stage 2B validation requirements, EPA's current National Functional Guidelines, current CLP SOWs, and the Region 5 Organic CLP validation SOP 83074-8-33-601-SO-1143.R1. In accordance with the QAPPs, the Tech Law, STAT and Eurofins data were validated by CDM Smith at a Stage 2B Validation/Verification level. The CLP data was validated by the U.S. EPA Region 5 ESAT contractor. CDM Smith reviewed the CLP validation reports and verified the sample results and qualifiers.

The detailed data evaluation/validation discussion is provided as a preface to the laboratory data reports in **Appendix C**. Some analytes were qualified as estimated (J), estimated biased high (J+) or biased low (J-) and/or non-detect (U) or estimated non-detect (UJ), based on validation criteria. Specific details on qualifications are provided in the individual data validation reports in **Appendix C**.

All field duplicate relative percent difference (RPD) results were within appropriate criteria except for field duplicate pair A11-MW007-201201/A11-MW007-201201-D. Sample results for isopropylbenzene, n-propylbenzene, sec-butylbenzene, 1,3,5-trimethylbenzene, benzene, naphthalene, and n-butylbenzene were qualified as estimated (J/UJ) based on RPD criteria or absolute difference criteria. For this field duplicate pair, the RPD criteria was met for the anions, alkalinity, and methane results.

A review was conducted on the VOC analyses as the sample concentrations vary enough to be suspect based on past sampling results. The COCs were evaluated for possible sample label issues and a comparison was done between samples that were collected on the same day. The COCs indicated no mislabeled samples and the sample comparison showed no other sample that had similar results comparable to A11-MW007-201201or A11-MW007-201201-D. A review of the raw laboratory data and chromatograms showed no obvious system errors. The VOC sample results that did not meet RPD criteria are estimated following data validation guidance and there is the potential a sample mix up may have occurred in the field or laboratory despite no

indication that a mix up occurred. The results should be used with caution and future sampling events at these locations will be conducted to evaluate the variable sample results.

In summary, all the validated and reviewed data are suitable for their intended use for site characterization. No data were rejected for the 2020 sampling events. Sample results that were qualified as estimated are usable for project decisions. Results that have been rejected from previous sampling years are not usable for project decisions. The laboratory and validation qualifiers are provided in the data tables referenced in **Section 3**.

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Section 3
Results

This section presents the results of the four quarterly groundwater sampling events in 2020. The Area 11 monitoring wells include two wells upgradient of the Area 11 AOI (MW001 and MW130A), four wells within the Area 11 AOI (MW002, MW003, MW004A, and MW004B) and three wells downgradient of the Area 11 AOI (MW005, MW006, and MW007). Upgradient well MW130A was added to the well network for the September and December sampling events.

Monitoring wells MW004A and MW004B are adjacent with MW004A screened in the shallow portion of the aquifer just below the water in a zone of significant contamination and MW004B is screened 45 feet lower, on top of a silt and clay layer to monitor the vertical extent of the groundwater contamination within the source area. Specific screened intervals and additional well information is provided in **Table 2** and a cross section is provided in **Appendix A**.

3.1 Hydraulic Results

Groundwater elevation measurements were collected prior to the start of each quarterly sampling event and in October 2020 as discussed in **Section 2.1**. The dates of data collection and the water elevations measured for the 2020 groundwater monitoring events are presented in **Table 3**.

Potentiometric surface maps were prepared using kriging, with default settings in Surfer®. The maps are presented for the third and fourth quarter events are shown as **Figures 4 and 5.** These events were selected because the greater number of water level data points present a more complete picture of groundwater flow patterns. Groundwater in the unconsolidated material enters the eastern edge of Area 11, flowing in a northwesterly direction before turning west-southwest as it exits Area 11 along the western boundary. Due to this gradual shift in groundwater flow direction, two gradients that run parallel to groundwater flow are estimated for Area 11. From the eastern boundary to the shift in direction near Harrison Avenue, groundwater gradients are estimated using elevation data from MW32 (as the upgradient location), and MW004A (as the downgradient location). After the flow direction shifts, the gradients are estimated using elevation data from MW0007 (as the upgradient location), and MW126A (as the downgradient location).

Third quarter groundwater elevations were measured on October 15, 2020. The groundwater flow direction was predominantly to the west, as shown in **Figure 4**, with the bend in flow direction occurring near Harrison Avenue. This quarterly event includes water level measurements from 19 monitoring wells, and the gradient from MW32 to MW004A was approximately 0.003971 feet/feet. The gradient from MW007 to MW126A was approximately 0.001411 feet/feet.

The fourth quarter groundwater elevations were measured on November 30, 2020. The groundwater flow direction was measured predominantly to the west, as shown in **Figure 5**, with the bend in flow direction occurring near Harrison Avenue. This quarterly event includes water

level measurements from 19 monitoring wells. The groundwater gradient from MW32 to MW004A was approximately 0.003911 feet/feet and the gradient from MW007 to MW126A was approximately 0.001360 feet/feet.

3.2 Laboratory Analytical Results for VOCs

Analytical results for the groundwater samples are compared to RGs established for Area 11 COCs in the OU3 ROD (U.S. EPA 2002) and to the Illinois groundwater quality standards for Class I groundwater in 35 IAC 620.410. Finally, results for compounds for which an applicable or relevant and appropriate enforceable standard does not exist are compared to screening criteria from "Tiered Approach to Corrective Action Objectives [TACO], Table E: Tier 1 Groundwater Remediation Objectives for the Groundwater Component of the Groundwater Ingestion Route" in 35 IAC 742, **Appendix B**.

Within the text, results are reported as being detected at a concentration that is "x" times the RG to facilitate exceedance comparisons between compounds that have different RGs. Although this method is generally useful for evaluating the relative concern posed by different exceedances, the Maximum Contaminant Levels (MCL) and Illinois Class I standards upon which the RGs are based are not always derived solely from risk-based thresholds and may also account for aesthetics or technical and financial barriers associated with public health protection.

Table 5 summarizes all VOCs detected during the 2020 quarterly groundwater monitoring events. **Table 6** summarizes, by individual monitoring well, the VOCs that have been detected in at least one sample collected from that monitoring well. In both tables, detected compounds are shown in bold type and compounds exceeding their RG are shaded. For sample locations from which a parent and duplicate sample were collected, if at least one of the two sample results exceeds an RG for a parameter, the location is described as exceeding RGs in the results discussion. **Figure 6** through **Figure 9** present analytical results by quarterly event for VOCs with an RG that were detected for each well location. Complete analytical results and data validation reports are provided in **Appendix C**.

The groundwater monitoring investigative samples and associated QC samples were analyzed and the data validated as described in **Sections 2.3** and **2.4**. Due to the differences in analytical methods for VOCs used by the different laboratories (CLP and ASB), the VOC parameter lists analyzed by each laboratory are slightly different. In **Tables 5 and 6,** any parameters not analyzed for a particular sampling event because of laboratory assignment are designated with "NA" for not analyzed. In addition, MW130A was added to the monitoring well network in August 2020; therefore, analytical results for only September and December 2020 are provided.

A recurring issue is that high concentrations of ETX compounds in samples collected from highly contaminated wells routinely require dilution prior to analysis. This results in elevated reporting limits (RL) for all other compounds that may exceed the other compound's respective RG in the same sample. For the 2020 sampling year, this occurs in the analytical results for the March, September, and December sampling events and to the greatest extent in samples collected from MW002 and MW004A, the two most contaminated Area 11 wells. Because of this "masking" effect, it is not possible to conclusively determine if other compounds are present above their RGs in the samples.

Based on discussions with staff from the U.S. EPA Region 5 Laboratory Services & Applied Sciences Division, this analytical issue is not easily resolved. The elevated RLs are caused by the high dilution factors needed to provide accurate results for the compounds with the highest concentrations. Analyzing undiluted, high concentration samples will overload the analytical instruments leading to qualified results from matrix interference and extensive down-time to clean the instrument. To prevent these costly and time-consuming issues, prior to analysis the laboratory typically screens samples for high concentration samples that will require dilution for accurate analysis.

However, the analytical results for the June 2020 event do not have elevated RLs resulting from dilution. (The reason that the samples for this one sampling event were not diluted is not known.) This one round of undiluted samples is not representative of all four 2020 sampling events, but it does give some indication of contaminant concentrations for the other compounds that are undetected at RLs greater than the RG in the other 2020 sampling events.

3.2.1 First Quarter (March 2020) Volatile Organic Compounds Exceeding Remediation Goals

During the March 2020 groundwater sampling event, eight Area 11 wells were sampled (**Table 5** and **Figure 6**). Five wells had detections of contaminants above the respective RG with several contaminants present at orders of magnitude times the RG:

- MW002 – ethylbenzene (10 times the RG), toluene (79 times the RG) and xylenes (2.5 times the RG)
- MW003 – ethylbenzene (2 times the RG), xylenes (1.3 times the RG) and 1,4-dioxane (1.1 times the RG)
- MW004A – toluene (45 times the RG)
- MW004B – 1,4-dioxane (1.3 times the RG)
- MW007 – ethylbenzene (1.3 times the RG)

MW002 had the most compounds exceeding RGs at Area 11 and at the highest concentrations.

3.2.2 Second Quarter (June 2020) Volatile Organic Compounds Exceeding Remediation Goals

Eight Area 11 monitoring wells were sampled during the June 2020 sampling event (**Table 5** and **Figure 7**). Seven wells had detections of contaminants above the respective RG with several contaminants present at orders of magnitude times the RG. Analytical results for the June 2020 sampling event did not have nondetects at RLs greater than RG as in other sampling events. This results in the detection of vinyl chloride and tetrachloroethene at concentrations just above their respective RGs.

- MW001 – 1,4-dioxane (2 times the RG)
- MW002 – ethylbenzene (9 times the RG), toluene (68 times the RG), xylenes (2.5 times the RG) and vinyl chloride (2 times the RG)

- MW003 – 1,4-dioxane (1.2 times the RG)
- MW004A – toluene (52 times the RG) and tetrachloroethene (PCE) (1.1 times the RG)
- MW004B – 1,4-dioxane (1.5 times the RG)
- MW005 – bromodichloromethane (2 times the TACO criteria) and 1,4-dioxane (1.1 times the RG)
- MW007 – ethylbenzene (1.2 times the RG)

MW002 continues to have the most compounds exceeding RGs and at the highest concentrations.

3.2.3 Third Quarter (September 2020) Volatile Organic Compounds Exceeding Remediation Goals

For the third quarter monitoring event, nine wells were sampled because MW130A was added to the monitoring well network in August 2020 (**Table 5** and **Figure 8**). Six wells had detections of contaminants above the respective RG with several contaminants present at orders of magnitude times the RG:

- MW002 – ethylbenzene (12 times the RG), toluene (39 times the RG) and xylenes (33 times the RG)
- MW004A – toluene (43 times the RG)
- MW004B – 1,4-dioxane (1.02 times the RG)
- MW005 – 1,4-dioxane (1.1 times the RG)
- MW006 – 1,4-dioxane (1.1 times the RG)
- MW007 – ethylbenzene (3.5 times the RG)

MW002 continues to have the most compounds exceeding RGs at Area 11; however, the greatest RG exceedance was toluene in MW004A.

3.2.4 Fourth Quarter (December 2020) Volatile Organic Compounds Exceeding Remediation Goals

All nine Area 11 monitoring wells were sampled during the December 2020 quarterly sampling event (**Table 5** and **Figure 9**). Three wells had detections of contaminants above the respective RG with several contaminants present at orders of magnitude times the RG:

- MW002 – ethylbenzene (15 times the RG), toluene (33 times the RG) and xylenes (3.8 times the RG)
- MW004A – toluene (34 times the RG)
- MW007 – ethylbenzene (5 times the RG) and benzene (8 times the RG in field duplicate)

MW002 continued to have the most compounds exceeding RGs at Area 11; however, the greatest RG exceedance was toluene in MW004A, but by only a slight margin over toluene in MW002.

3.2.5 Comprehensive Compounds Exceeding Remediation Goals

This section will summarize long-term trends in contaminant concentrations in samples collected from the Area 11 monitoring well network since routine sampling began in April 2011, despite various interruptions described in **Section 1.1**. The results are included in **Table 6.** Scatter plots with trendlines for compounds detected in wells at concentrations that routinely exceed RGs are included in **Figures 10 through 12**. Because reliable analysis of 1,4-dioxane has occurred only since November 2019, long-term trends are not available and discussion of 1,4-dioxane may be minimal.

An additional background well, MW130A, was added to the Area 11 monitoring well network starting with the September 2020 sampling event. This well is located downgradient of Area 4 (it was previously part of the Area 4 RA monitoring well network) and upgradient of Area 11. See **Figure 1** for the location of Area 4 relative to Area 11. The compounds detected during the September and December sampling rounds were 1,1,1-trichloroethane (TCA), 1,1-dichoroethene (DCE) and 1,4-dioxane at low single-digit concentrations near the RLs, and well below the RGs.

As part of Area 4 sampling, the highest concentration of TCA detected in MW130A was 630 micrograms per liter (µg/L) in samples collected both in November 2010 and January 2011, and the highest DCE concentration was 18 µg/L in the sample collected in November 2010. After these maximum concentrations were recorded, the concentrations of both compounds decreased rapidly following implementation of the Area 4 leachate control remedy that started operation in December 2009. Concentrations of both compounds fell below their respective RGs starting with samples collected in July 2011 and remained below their respective RGs until Area 4 groundwater monitoring ceased in November 2017. The last sample collected from MW130A as part of the Area 4 RA in November 2017 contained TCA at a concentration of 11 µg/L and DCE at a concentration of 3.3 µg/L, both of which are similar to the concentrations detected during 2020.

Monitoring well MW001 is also considered an upgradient, background well for Area 11. Samples collected from this well during five events from 2011 to 2012 contained TCA, DCE, and trichloroethene (TCE) at concentrations just above their respective RGs. Starting in December 2012, concentrations of these compounds steadily decreased to low double- and single-digit levels that have remained consistently below RGs. It is assumed that the decrease in concentrations of chlorinated VOCs is attributable to the Area 4 hydraulic containment leachate component remedy that operated from December 2009 to October 2018. See **Figure 1** for the location of Area 4 relative to Area 11. The ETX compounds have been detected sporadically since 2011. When detected, the ETX results have been estimated below the RL. Of the five 1,4-dioxane results since November 2019, two have been almost twice the RG, two have been just below the RG, and one was nondetect. As seen in Table 6, the high and low concentrations are interspersed and although no statistical trend analysis was performed, no obvious trend is readily apparent.

Continuing in a generally hydrogeologic downgradient order, the well locations with the highest concentrations of contaminants and greatest RG exceedances are MW004A and MW002. The greatest exceedance and highest concentration of any VOC detected in groundwater at Area 11

was toluene at 520 times the RG (520,000 µg/L) in groundwater screening sample A11-GW-5, collected on January 15, 2008, from 38 to 42 feet bgs at a location several feet from MW004A (screened interval of 30 to 40 feet bgs) during the first round of predesign field activities (CDM Smith 2009). Reference values for the solubility limit of toluene vary and the solubility limit itself varies with temperature, but in general 520,000 µg/L is at or very close to the solubility limit of toluene. Since 2011, the highest concentrations of toluene were 230 times the RG in MW004A (in June 2013) and 220 times the RG in MW002 (in March 2017).

Toluene concentrations in samples collected from MW004A through 2020 have decreased from a maximum of 230 times the RG (230,000 µg/L) in June 2013, to 34 times the RG (34,200 µg/L) in December 2020 (see **Figure 10**). The greatest decrease in concentration in MW004A was between samples collected in April 2016 and March 2017 when toluene concentrations dropped by almost half from 150 times the RG (150,000 µg/L) in April 2016, to 79 times the RG (79,000 µg/L) in March 2017. Since 2017, toluene concentrations have fluctuated, but have generally continued to decrease.

Ethylbenzene and xylenes concentrations in samples collected from MW004A have continued to decrease from their initial, higher levels in 2011 and 2012. The xylenes concentrations in samples collected from MW004A have been below the RG of 10,000 µg/L since 2012, and the ethylbenzene concentrations have been below the RG of 700 µg/L since 2013.

Since 2011, the only chlorinated VOCs in samples collected from MW004A at concentrations above an RG are TCE and PCE, which both have an RG of 5 µg/L, and DCE, which has an RG of 7. The highest concentration and greatest RG exceedance of the three compounds was DCE at a concentration of 1,100J in April 2013. As previously discussed, elevated RLs in most of the samples collected from MW004A prevent a conclusive determination of the presence or absence of many VOCs in samples; however, samples collected in June 2013, April 2016, and June 2020 do not have elevated RLs. In the sample collected in June 2013 all three compounds exceeded their respective RGs ranging from TCE at 1.2 times its RG to PCE at 7.4 times its RG, in June 2016 the only RG exceedances were PCE (3.6 times the RG) and TCE (1.8 times the RG), (DCE was not detected at 5U µg/L), and in June 2020 only PCE exceeded its RG (1.3 times the RG). Other chlorinated VOCs were detected, but the concentrations of a chlorinated VOCs in the June 2020 were similar to concentrations in samples collected from background well MW001. Finally, 1,4-dioxane was not detected above its RG in any of the 2019 or 2020 sampling events when analyzed and at concentrations below background well MW001 in four of five samples.

Toluene concentrations in samples collected from MW002 through 2020 have decreased from a maximum of 220 times the RG (220,000 µg/L) in December 2012 and March 2017, to 22.5 times the RG (22,500 µg/L) in November 2019 (see **Figure 11**). The greatest decrease of toluene concentrations was between May and November 2019 when toluene concentrations decreased by almost four times from 88 times the RG (88,000 µg/L) in May 2019, down to 22.5 the RG (22,500 µg/L) in November 2019. However, the toluene concentration rebounded back to 78.6 times the RG (78,600 µg/L) the following sampling event in March 2020. For the remaining 2020 sampling events, the toluene concentration decreased down to 33.2 times the RG (33,200 µg/L) in December 2020.

Concentrations of ethylbenzene and xylenes in MW002 remained at levels over their RGs since 2012, showing decreasing concentrations through 2019 (see **Figure 11**). Beginning in 2020, the concentrations of both compounds have gradually increased to levels two to three time the previous highest levels. In addition, benzene was detected once in a sample collected from MW002 in June 2013, at a concentration just over its RG of 5 µg/L. Vinyl chloride was detected in June 2020 at a concentration of 4.4 µg/L, which is two times the RG of 2.0 µg/L. The compound 1,4-dioxane was not detected above the RG of 7.7 µg/L when analyzed in any of the 2019 or 2020 sampling events.

Samples collected from MW004B are similar to those collected from background wells MW001 and MW130A, with low double- and single-digit detections of several chlorinated compounds and sporadic, low-level detections of ETX compounds. The steady decrease in TCA concentrations since 2011 is at least partially attributable to the Area 4 leachate component remedy. The compound 1,4-dioxane was detected above the RG in four of the five sampling events where analyzed. The average of the 1,4-dioxane detections for the five sampling events is approximately 10 µg/L, which is above the RG of 7.7 µg/L.

MW003, located about 85 feet south of MW002 as shown in **Figure 2**, has not shown significant ETX contamination since September 2012, however, the May 2019 and March 2020 sampling events showed a spike in total xylene concentration slightly over the RG. Additionally, in March 2020, the ethylbenzene concentration increased from below the RG to twice the RG (1,500 µg/L). Ethylbenzene concentrations in this well have been well below the RG of 700 µg/L since 2012 except for one RG exceedance (730 µg/L) in 2014. The average of the 1,4-dioxane detections for the five sampling events is approximately 8 µg/L, which is slightly above the RG of 7.7 µg/L.

MW007 is located about 113 feet directly west and downgradient of MW002, as shown in **Figure 3**. To date, eight rounds of samples have been collected from this well with ethylbenzene above its RG for all sample events (see **Figure 12**). Ethylbenzene concentrations have fluctuated ranging from 9.5 times the RG (6,700 µg/L) in November 2018, down to two times the RG (1,420 µg/L) a year later in November 2019 and increasing in 2020 to five times the RG (3,660 µg/L). Xylenes were detected above the RG for the first event and declined to levels approximately half the concentration of the RG during both 2019 sampling events. In 2020, xylenes increased and were detected at approximately two times the 2019 levels, but still below the RG. Toluene was detected below the RG in November 2018, but not detected in 2019 or 2020, despite being a relatively short distance downgradient from MW002 with its high concentrations of toluene. Benzene was reported at eight time the RG in the field duplicate (44.3 µg/L) and was non-detect in the parent sample in December 2020. The results are considered estimated because the overall agreement between sample and field duplicate was poor. The data from 2018 and 2019 indicate that sample dilutions may have resulted in the masking of benzene detections in these earlier sampling events. The compound 1,4-dioxane was not detected above the RG when analyzed in any of the 2019 or 2020 sampling events.

Monitoring wells MW005 and MW006 are located downgradient of Area 11. Samples collected from these wells have contained a combination of site-wide chlorinated compounds, and ETX compounds at low double- and single-digit concentrations. The only compounds detected above RGs in either well are 1,4-dioxane, bromodichloromethane and benzene. (The comparison

criterion for bromodichloromethane is from TACO and is not considered an RG.) Bromodichloromethane has been detected above the RG several times in both wells. Bromodichloromethane is a trihalomethane, generally referred to as a disinfection by-product resulting from chlorine treatment of drinking water that has been routinely detected above its RG in the Area 4 background monitoring well. Its detection is not considered to be attributable to either source area. Benzene has been detected once in samples collected from MW005, and several times in MW006, including once at a concentration above its RG of 5 µg/L in May 2019. Benzene is not known to be related to Area 11, but the possibility still exists that it is related. The average of the 1,4-dioxane detections for the five sampling events for MW0005 is 6.8 µg/L and 4.5 µg/L for MW0006, both below the RG of 7.7 µg/L.

Section 4
Conclusions

Groundwater samples collected from monitoring wells MW002 and MW004 demonstrate that these two wells are screened in the most contaminated groundwater at Area 11, with MW002 being the more contaminated of the two based on it containing higher concentrations of more VOCs. Although toluene concentrations in both wells have decreased by almost an order of magnitude since 2011, toluene concentrations in both wells remain well above the RG, and ethylbenzene and xylenes concentrations have increased in samples collected from MW002. Further, samples collected from MW007 have contained ethylbenzene at concentrations that exceed its RG since it was installed in 2018. Although the concentrations of ethylbenzene had been steadily decreasing, the increase starting in September 2020 is problematic.

The continued RG exceedances onsite and immediately downgradient indicate that achieving RGs will not happen soon unless the source of contamination is located and remediated, whether it be source material in the vadose zone or NAPL in groundwater. This issue will be addressed in the soil component technical memorandum that will be prepared later under a cooperative agreement executed for the soil component RD. However, if a soil component cooperative agreement has not been executed, the technical memorandum will be prepared as a separate report regardless.

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Section 5
References

CDM Smith. 1995. "Southeast Rockford, Final RI Report" January.

CDM Smith, 2009. Area 11 Pre-Design Technical Memorandum
Southeast Rockford Groundwater Contamination Superfund Site. January 22.

CDM Smith. 2013. Area 11 Phase II Pre-Design Technical Memorandum, Southeast Rockford Groundwater Contamination Superfund Site. September 2013.

CDM Smith. 2014. "Quality Assurance Project Plan Addendum and Sampling and Analysis Plan for Area 11 Long-Term Remedial Action Monitoring, Southeast Rockford Groundwater Contamination Superfund Site" March 19.

CDM Smith. 2018. "Southeast Rockford Groundwater Contamination Superfund Site, Area 11 Pre-Design Technical Memorandum" December.

CDM Smith. 2019. Letter from John Grabs to Karen Kirchner, U. S. EPA. Subject: Quality Assurance Project Plan Request for Information, Source Area 11 Remedial Action (Leachate Component), Southeast Rockford Groundwater Contamination Superfund Site, Rockford, Winnebago County, Illinois. May 15.

CDM Smith. 2019. Letter from John Grabs to Karen Kirchner, U. S. EPA. Subject: Quality Assurance Project Plan Request for Information Addendum, Source Area 11 Remedial Action (Leachate Component), Southeast Rockford Groundwater Contamination Superfund Site, Rockford, Winnebago County, Illinois. November 4.

CDM Smith. 2020. "Final Quality Assurance Project Plan and Sampling and Analysis Plan, Source Area 11 Long-Term Remedial Action Monitoring, Southeast Rockford Groundwater Contamination Superfund Site" August.

U.S. EPA. 1995. "Record of Decision: Southeast Rockford Ground Water Contamination, EPA ID: ILD981000417, OU 02, Rockford, IL, 09/29/1995" EPA/ROD/R05-95/277, 1995.

U.S. EPA. 2002. "Record of Decision: Southeast Rockford Ground Water Contamination, EPA ID: ILD981000417, OU 03, Rockford, IL, 06/11/2002" EPA/ROD/R05-02/077, 2000.

U.S. EPA. 2020. National Priorities List Partial Deletion Listing Narrative, Southeast Rockford Groundwater Contamination, Rockford, Illinois. Document ID 400269. September 30.

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Figures

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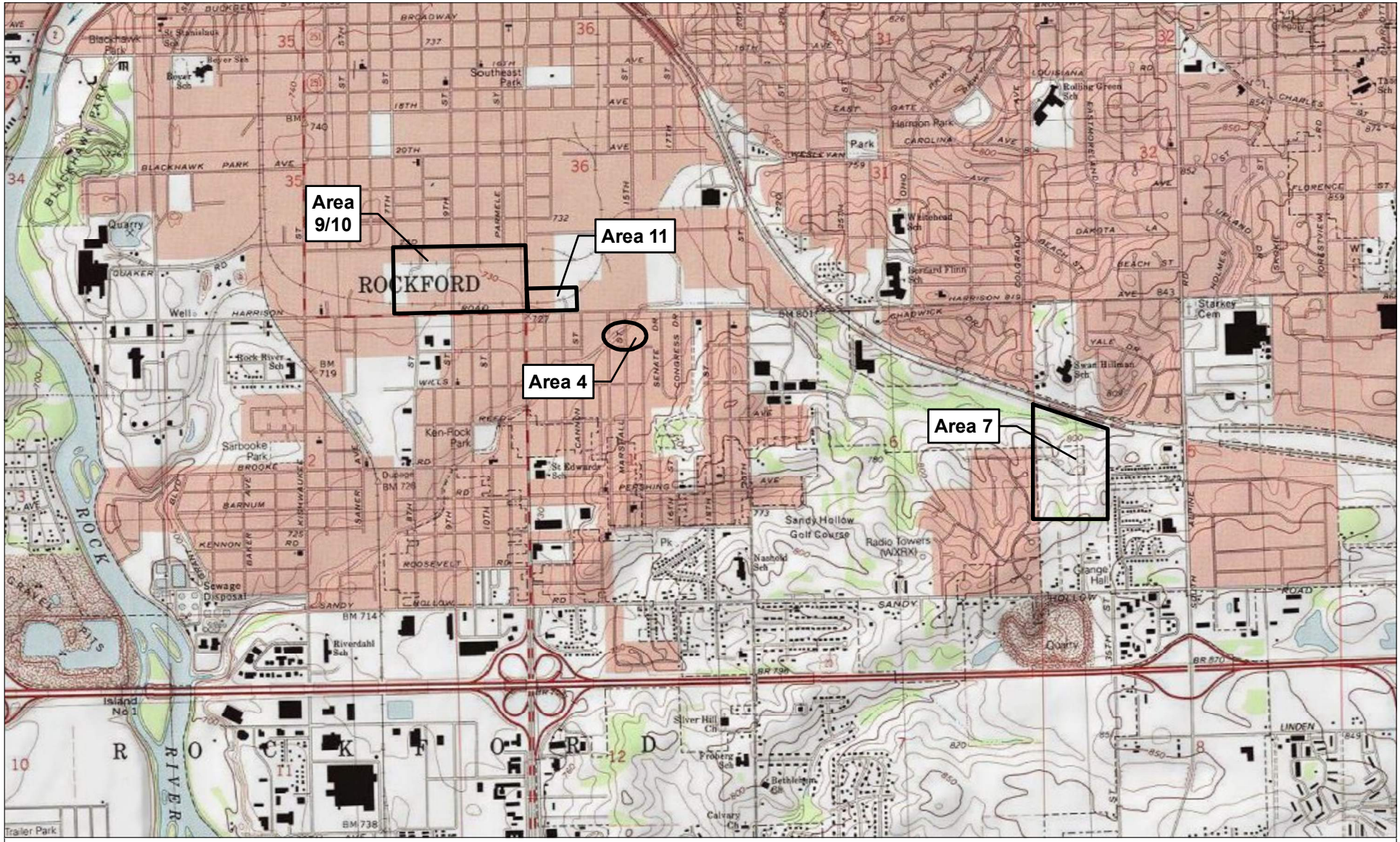


LEGEND

Source Area

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

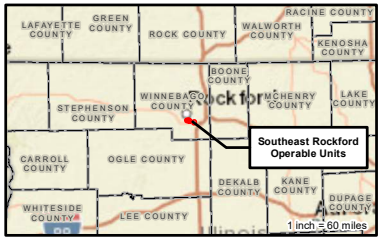


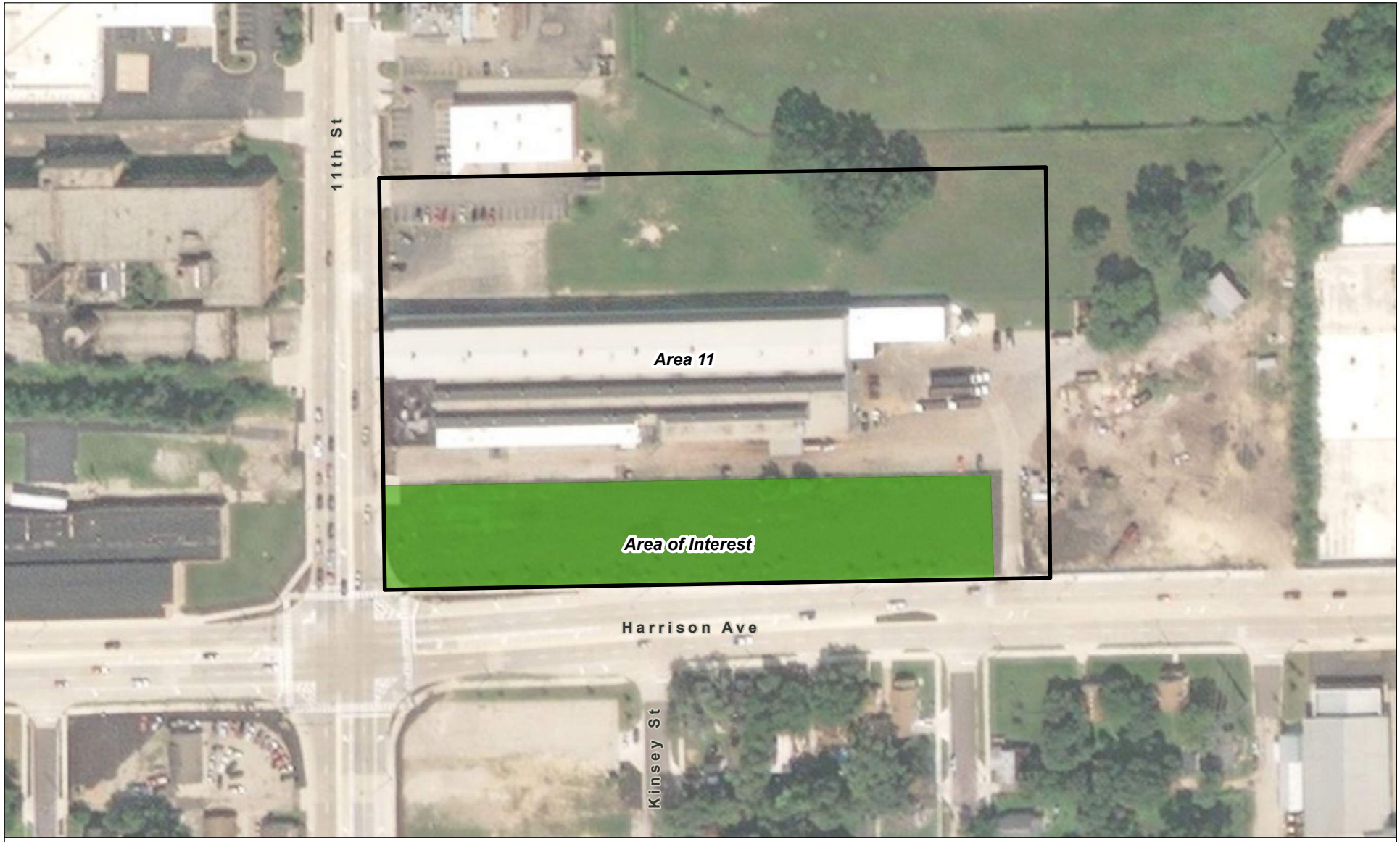
Figure 1 - Area Map

N

0 1,250 2,500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



LEGEND

Area 11 Boundary

Area of Interest

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

Figure 2 - Area 11 Boundary and Area of Interest

N

0 75 150 Feet

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Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

LEGEND

- Groundwater Sampling Location
- Water Level Measurement Location
- Area 11 Boundary
- Area of Interest

Service Layer Credits:
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- Road Centerline Source: Census TIGER/Line Roads, 2020.

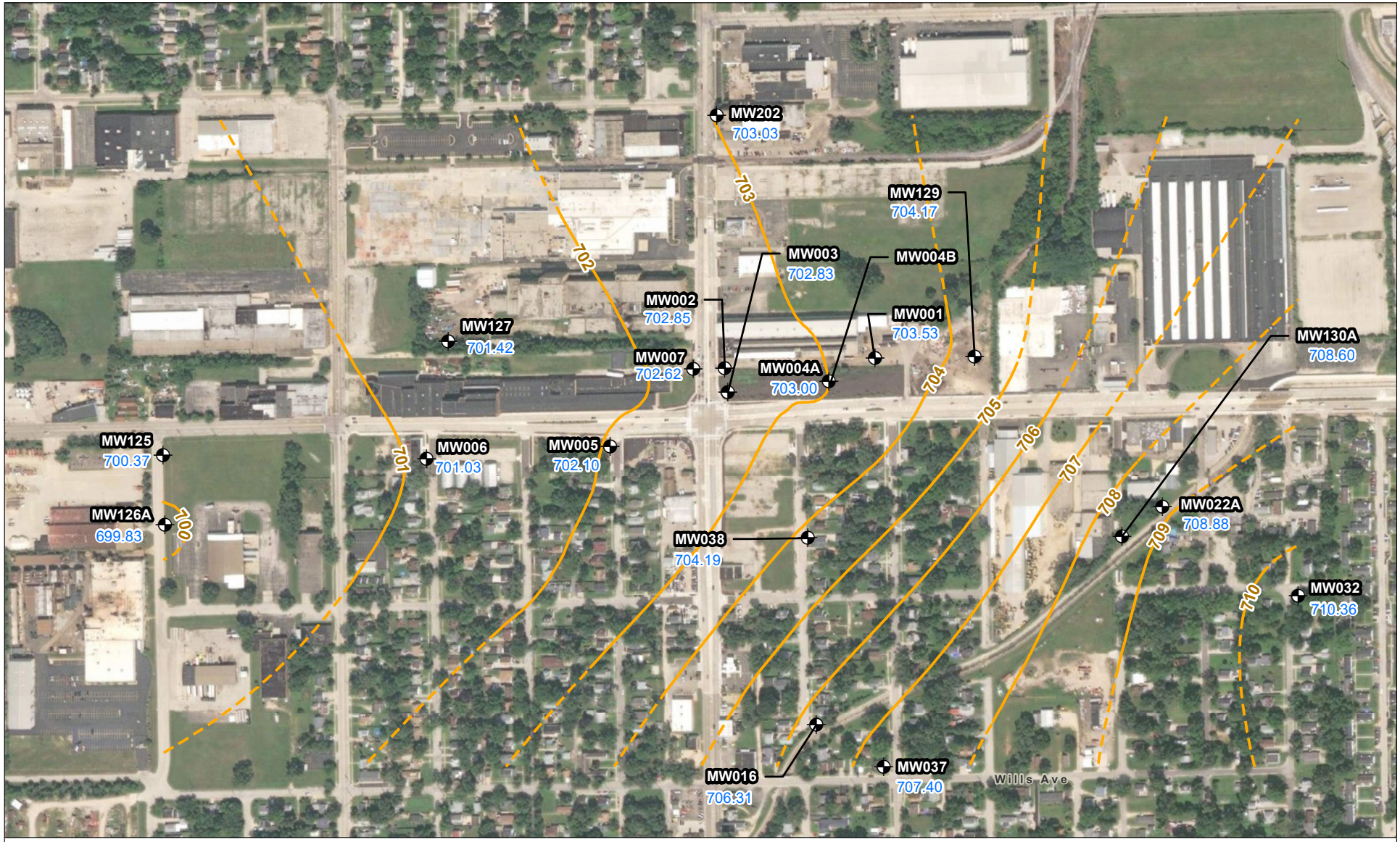
Figure 3 - Area 11 Monitoring Well Locations

N

0 250 500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



LEGEND

Monitoring Well and Water Level Elevation
700.00

Groundwater Contour

Extrapolated Groundwater Contour (Approximate)

Service Layer Credits:
- Water level measurements taken October 15, 2020.
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

Figure 4 - Area 11 Third Quarter October 2020 Groundwater Potentiometric Surface Map

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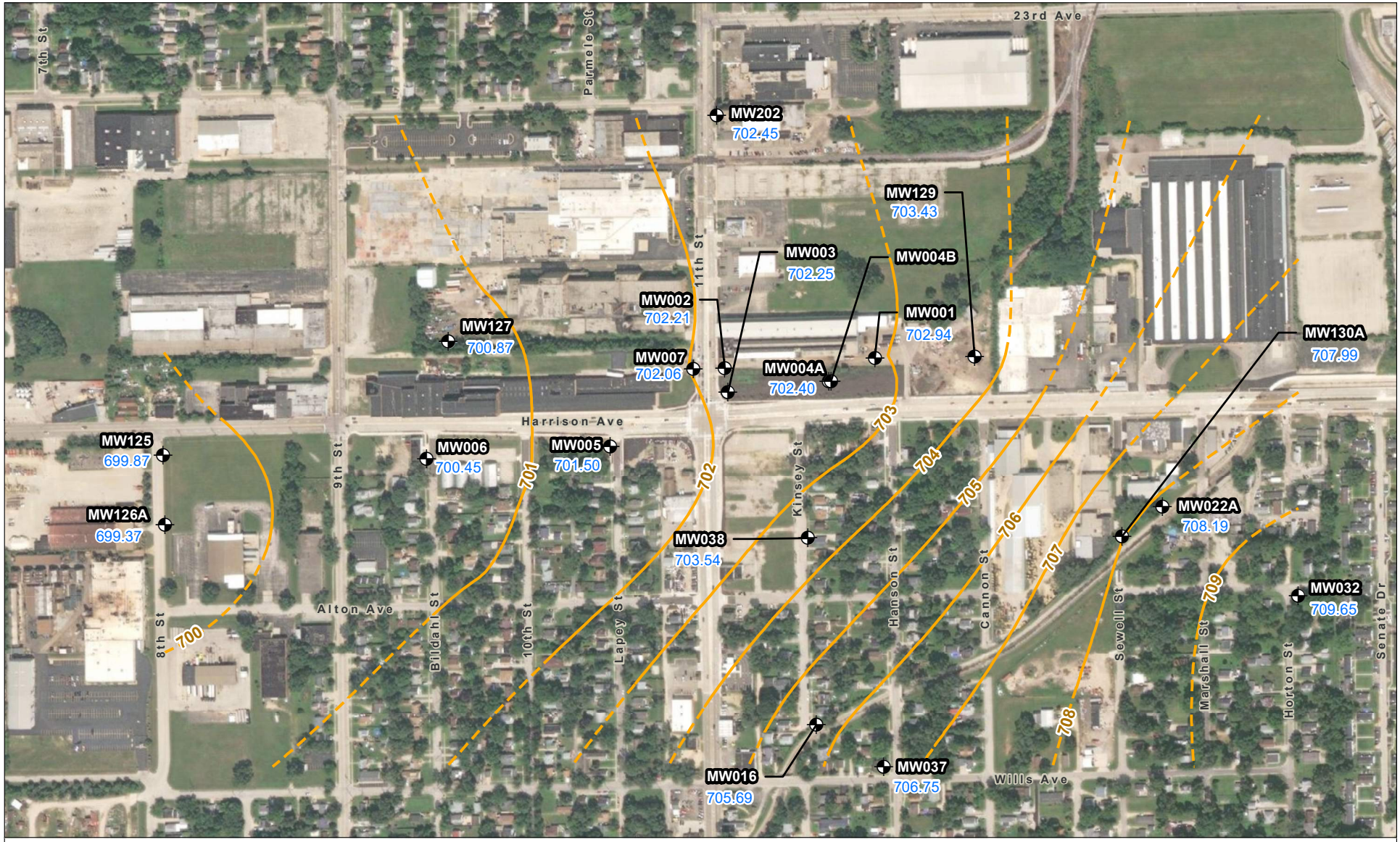
CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



LEGEND

Monitoring Well and Water Level Elevation
700.00

Groundwater Contour

Extrapolated Groundwater Contour (Approximate)

Service Layer Credits:
- Water level measurements taken November 30, 2020.
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

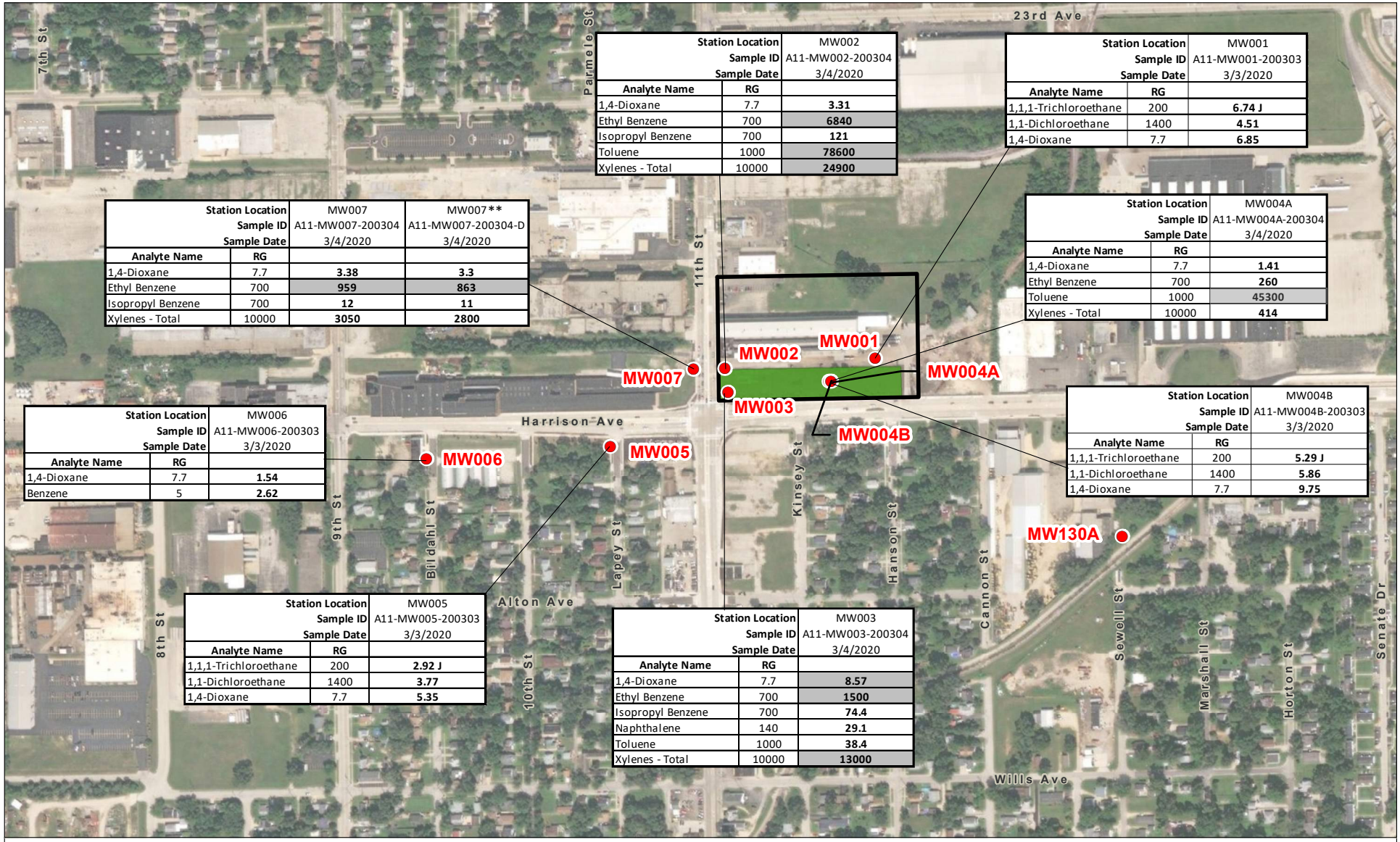
Figure 5 - Area 11 Fourth Quarter November 2020 Groundwater Potentiometric Surface Map

N

0 250 500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



Station Location		MW002
Sample ID		A11-MW002-200304
Sample Date		3/4/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**3.31**
Ethyl Benzene	700	**6840**
Isopropyl Benzene	700	**121**
Toluene	1000	**78600**
Xylenes - Total	10000	**24900**

Station Location		MW001
Sample ID		A11-MW001-200303
Sample Date		3/3/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**6.74 J**
1,1-Dichloroethane	1400	**4.51**
1,4-Dioxane	7.7	**6.85**

Station Location		MW007	MW007**
Sample ID		A11-MW007-200304	A11-MW007-200304-D
Sample Date		3/4/2020	3/4/2020
Analyte Name	RG		
1,4-Dioxane	7.7	**3.38**	**3.3**
Ethyl Benzene	700	**959**	**863**
Isopropyl Benzene	700	**12**	**11**
Xylenes - Total	10000	**3050**	**2800**

Station Location		MW004A
Sample ID		A11-MW004A-200304
Sample Date		3/4/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**1.41**
Ethyl Benzene	700	**260**
Toluene	1000	**45300**
Xylenes - Total	10000	**414**

Station Location		MW006
Sample ID		A11-MW006-200303
Sample Date		3/3/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**1.54**
Benzene	5	**2.62**

Station Location		MW004B
Sample ID		A11-MW004B-200303
Sample Date		3/3/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**5.29 J**
1,1-Dichloroethane	1400	**5.86**
1,4-Dioxane	7.7	**9.75**

Station Location		MW005
Sample ID		A11-MW005-200303
Sample Date		3/3/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**2.92 J**
1,1-Dichloroethane	1400	**3.77**
1,4-Dioxane	7.7	**5.35**

Station Location		MW003
Sample ID		A11-MW003-200304
Sample Date		3/4/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**8.57**
Ethyl Benzene	700	**1500**
Isopropyl Benzene	700	**74.4**
Naphthalene	140	**29.1**
Toluene	1000	**38.4**
Xylenes - Total	10000	**13000**

LEGEND

Groundwater Sampling Location

Area of Interest

Area 11 Boundary

Notes:
- All results in microgram per liter
- Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
- Shaded result exceeds remediation goal
- J = Estimated result

** = Field Duplicate Sample

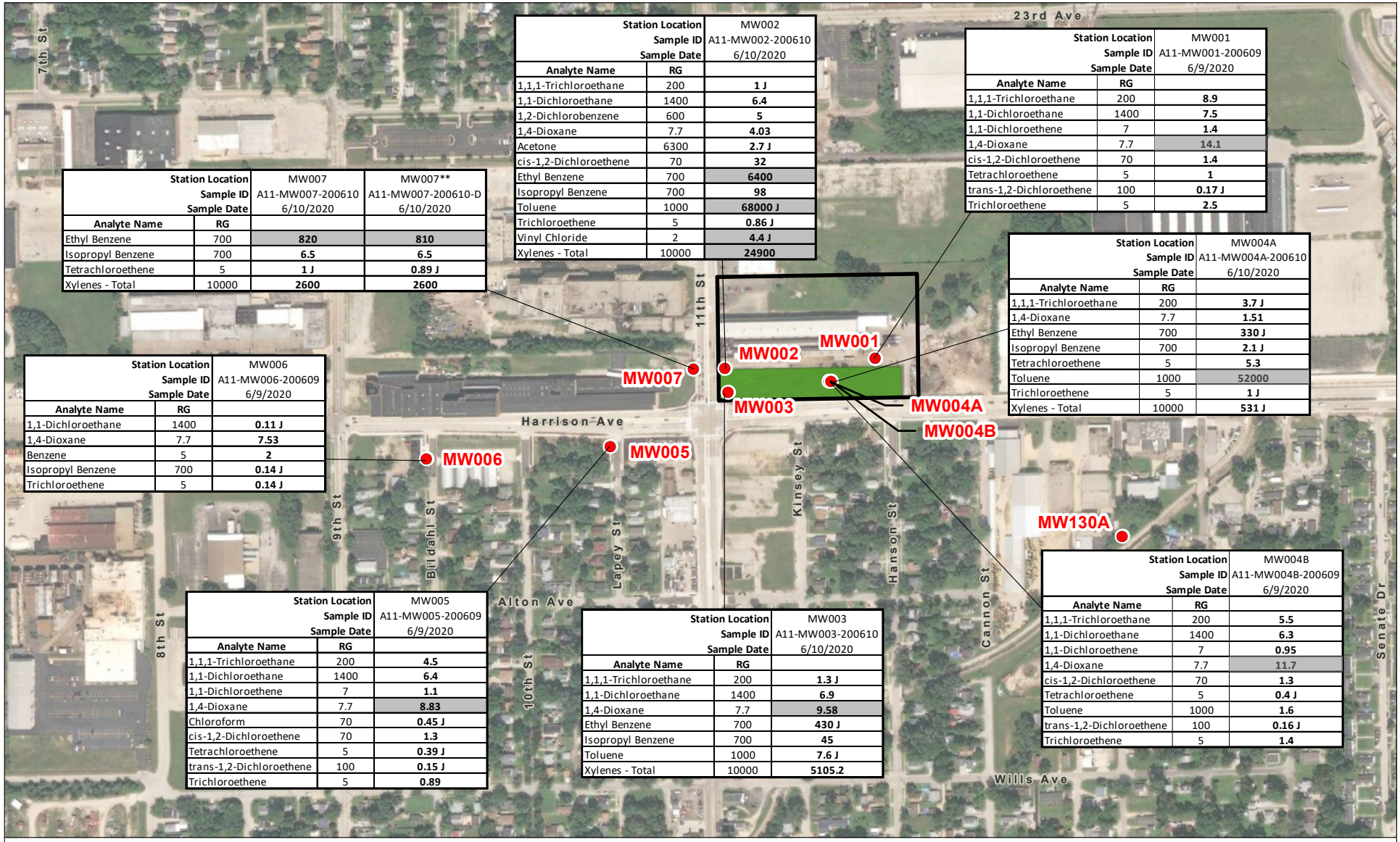
Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

Figure 6 - VOCs with RG Detections, March 2020

0 250 500 Feet

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



Station Location	MW002
Sample ID	A11-MW002-200610
Sample Date	6/10/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	1 J
1,1-Dichloroethane	1400	6.4
1,2-Dichlorobenzene	600	5
1,4-Dioxane	7.7	4.03
Acetone	6300	2.7 J
cis-1,2-Dichloroethene	70	32
Ethyl Benzene	700	6400
Isopropyl Benzene	700	98
Toluene	1000	68000 J
Trichloroethene	5	0.86 J
Vinyl Chloride	2	4.4 J
Xylenes - Total	10000	24900

Station Location	MW001
Sample ID	A11-MW001-200609
Sample Date	6/9/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	8.9
1,1-Dichloroethane	1400	7.5
1,1-Dichloroethene	7	1.4
1,4-Dioxane	7.7	14.1
cis-1,2-Dichloroethene	70	1.4
Tetrachloroethene	5	1
trans-1,2-Dichloroethene	100	0.17 J
Trichloroethene	5	2.5

Station Location	MW007	MW007**
Sample ID	A11-MW007-200610	A11-MW007-200610-D
Sample Date	6/10/2020	6/10/2020
Analyte Name	RG		
Ethyl Benzene	700	820	810
Isopropyl Benzene	700	6.5	6.5
Tetrachloroethene	5	1 J	0.89 J
Xylenes - Total	10000	2600	2600

Station Location	MW004A
Sample ID	A11-MW004A-200610
Sample Date	6/10/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	3.7 J
1,4-Dioxane	7.7	1.51
Ethyl Benzene	700	330 J
Isopropyl Benzene	700	2.1 J
Tetrachloroethene	5	5.3
Toluene	1000	52000
Trichloroethene	5	1 J
Xylenes - Total	10000	531 J

Station Location	MW006
Sample ID	A11-MW006-200609
Sample Date	6/9/2020
Analyte Name	RG	
1,1-Dichloroethane	1400	0.11 J
1,4-Dioxane	7.7	7.53
Benzene	5	2
Isopropyl Benzene	700	0.14 J
Trichloroethene	5	0.14 J

Station Location	MW004B
Sample ID	A11-MW004B-200609
Sample Date	6/9/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	5.5
1,1-Dichloroethane	1400	6.3
1,1-Dichloroethene	7	0.95
1,4-Dioxane	7.7	11.7
cis-1,2-Dichloroethene	70	1.3
Tetrachloroethene	5	0.4 J
Toluene	1000	1.6
trans-1,2-Dichloroethene	100	0.16 J
Trichloroethene	5	1.4

Station Location	MW005
Sample ID	A11-MW005-200609
Sample Date	6/9/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	4.5
1,1-Dichloroethane	1400	6.4
1,1-Dichloroethene	7	1.1
1,4-Dioxane	7.7	8.83
Chloroform	70	0.45 J
cis-1,2-Dichloroethene	70	1.3
Tetrachloroethene	5	0.39 J
trans-1,2-Dichloroethene	100	0.15 J
Trichloroethene	5	0.89

Station Location	MW003
Sample ID	A11-MW003-200610
Sample Date	6/10/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	1.3 J
1,1-Dichloroethane	1400	6.9
1,4-Dioxane	7.7	9.58
Ethyl Benzene	700	430 J
Isopropyl Benzene	700	45
Toluene	1000	7.6 J
Xylenes - Total	10000	5105.2

LEGEND

Groundwater Sampling Location

Area of Interest

Area 11 Boundary

Notes:
- All results in microgram per liter
- Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
- Shaded result exceeds remediation goal
- J = Estimated result

** = Field Duplicate Sample

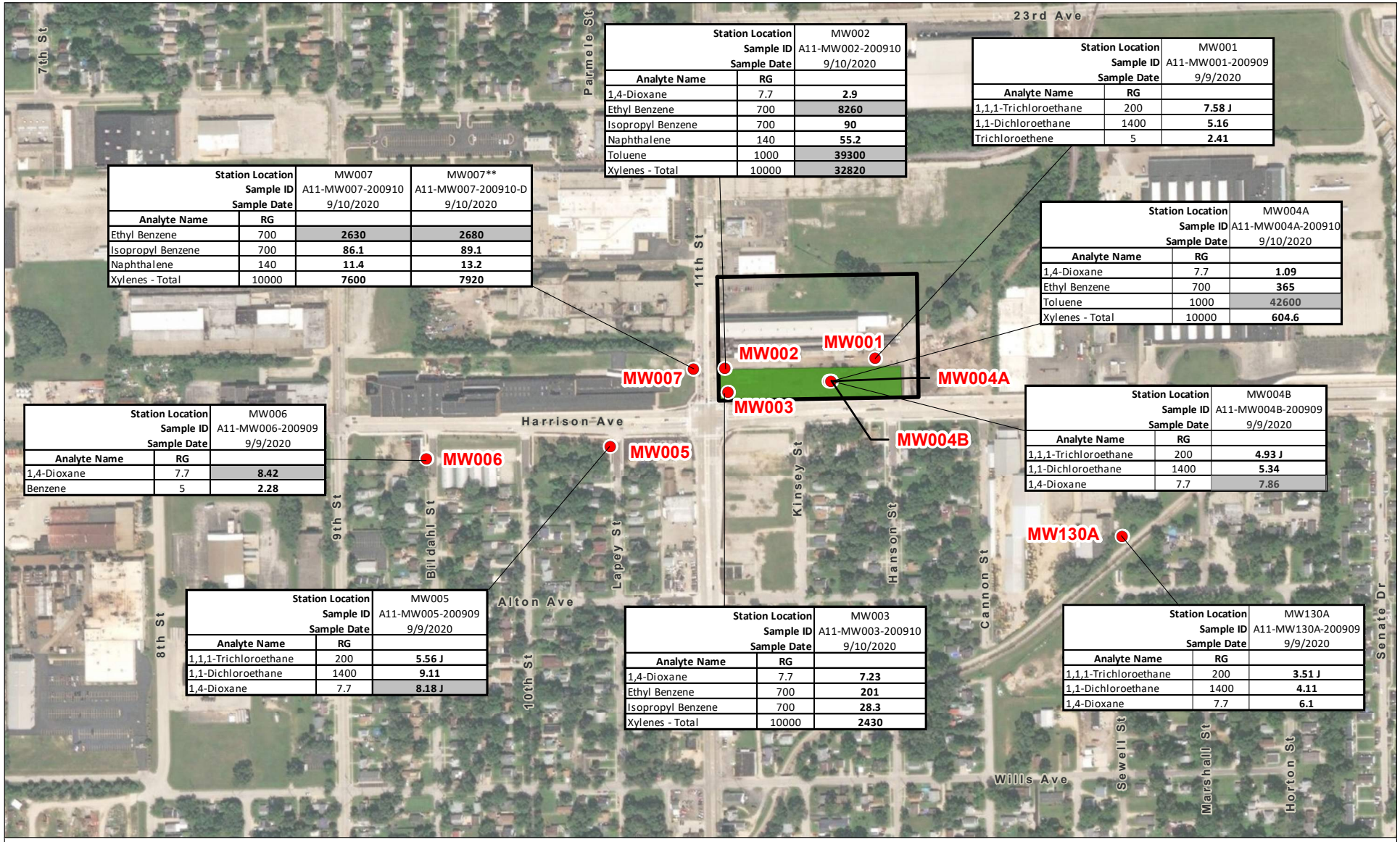
Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

0 250 500 Feet

Figure 7 - VOCs with RG Detections, June 2020

CDM Smith

Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



Station Location	MW002
Sample ID	A11-MW002-200910
Sample Date	9/10/2020

Analyte Name	RG	
1,4-Dioxane	7.7	**2.9**
Ethyl Benzene	700	**8260**
Isopropyl Benzene	700	**90**
Naphthalene	140	**55.2**
Toluene	1000	**39300**
Xylenes - Total	10000	**32820**

Station Location	MW001
Sample ID	A11-MW001-200909
Sample Date	9/9/2020

Analyte Name	RG	
1,1,1-Trichloroethane	200	**7.58 J**
1,1-Dichloroethane	1400	**5.16**
Trichloroethene	5	**2.41**

Station Location	MW007	MW007**
Sample ID	A11-MW007-200910	A11-MW007-200910-D
Sample Date	9/10/2020	9/10/2020

Analyte Name	RG		
Ethyl Benzene	700	**2630**	**2680**
Isopropyl Benzene	700	**86.1**	**89.1**
Naphthalene	140	**11.4**	**13.2**
Xylenes - Total	10000	**7600**	**7920**

Station Location	MW004A
Sample ID	A11-MW004A-200910
Sample Date	9/10/2020

Analyte Name	RG	
1,4-Dioxane	7.7	**1.09**
Ethyl Benzene	700	**365**
Toluene	1000	**42600**
Xylenes - Total	10000	**604.6**

Station Location	MW004B
Sample ID	A11-MW004B-200909
Sample Date	9/9/2020

Analyte Name	RG	
1,1,1-Trichloroethane	200	**4.93 J**
1,1-Dichloroethane	1400	**5.34**
1,4-Dioxane	7.7	**7.86**

Station Location	MW006
Sample ID	A11-MW006-200909
Sample Date	9/9/2020

Analyte Name	RG	
1,4-Dioxane	7.7	**8.42**
Benzene	5	**2.28**

Station Location	MW005
Sample ID	A11-MW005-200909
Sample Date	9/9/2020

Analyte Name	RG	
1,1,1-Trichloroethane	200	**5.56 J**
1,1-Dichloroethane	1400	**9.11**
1,4-Dioxane	7.7	**8.18 J**

Station Location	MW003
Sample ID	A11-MW003-200910
Sample Date	9/10/2020

Analyte Name	RG	
1,4-Dioxane	7.7	**7.23**
Ethyl Benzene	700	**201**
Isopropyl Benzene	700	**28.3**
Xylenes - Total	10000	**2430**

Station Location	MW130A
Sample ID	A11-MW130A-200909
Sample Date	9/9/2020

Analyte Name	RG	
1,1,1-Trichloroethane	200	**3.51 J**
1,1-Dichloroethane	1400	**4.11**
1,4-Dioxane	7.7	**6.1**

LEGEND

Groundwater Sampling Location

Area of Interest

Area 11 Boundary

Notes:
- All results in microgram per liter
- Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
- Shaded result exceeds remediation goal
- J = Estimated result

** = Field Duplicate Sample

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

0 250 500 Feet

Figure 8 - VOCs with RG Detections, September 2020

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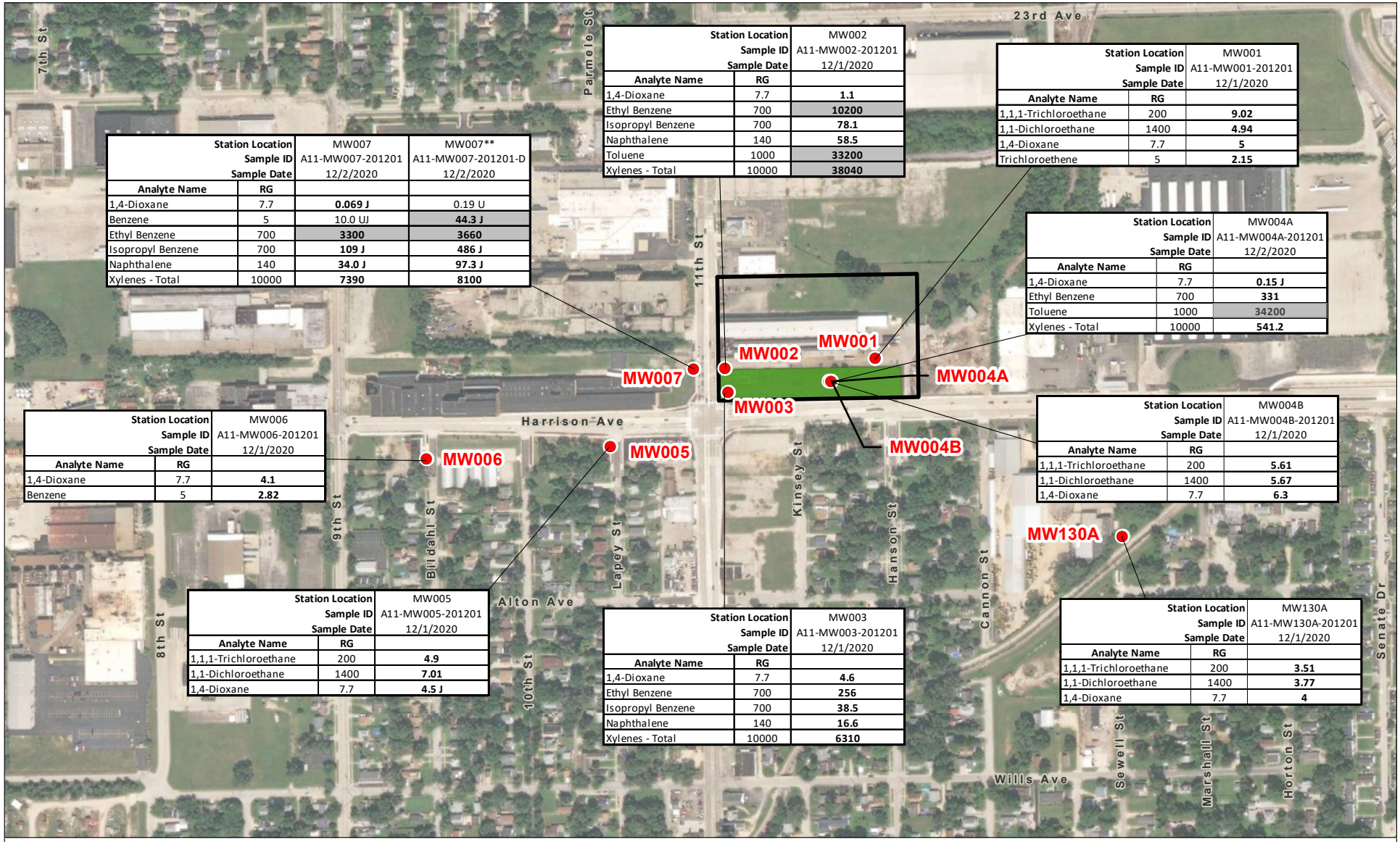
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



Station Location	MW007	MW007**
Sample ID	A11-MW007-201201	A11-MW007-201201-D
Sample Date	12/2/2020	12/2/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**0.069 J**	0.19 U
Benzene	5	10.0 UJ	**44.3 J**
Ethyl Benzene	700	**3300**	**3660**
Isopropyl Benzene	700	**109 J**	**486 J**
Naphthalene	140	**34.0 J**	**97.3 J**
Xylenes - Total	10000	**7390**	**8100**

Station Location	MW002
Sample ID	A11-MW002-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**1.1**
Ethyl Benzene	700	**10200**
Isopropyl Benzene	700	**78.1**
Naphthalene	140	**58.5**
Toluene	1000	**33200**
Xylenes - Total	10000	**38040**

Station Location	MW001
Sample ID	A11-MW001-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**9.02**
1,1-Dichloroethane	1400	**4.94**
1,4-Dioxane	7.7	**5**
Trichloroethene	5	**2.15**

Station Location	MW004A
Sample ID	A11-MW004A-201201
Sample Date	12/2/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**0.15 J**
Ethyl Benzene	700	**331**
Toluene	1000	**34200**
Xylenes - Total	10000	**541.2**

Station Location	MW004B
Sample ID	A11-MW004B-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**5.61**
1,1-Dichloroethane	1400	**5.67**
1,4-Dioxane	7.7	**6.3**

Station Location	MW006
Sample ID	A11-MW006-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**4.1**
Benzene	5	**2.82**

Station Location	MW005
Sample ID	A11-MW005-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**4.9**
1,1-Dichloroethane	1400	**7.01**
1,4-Dioxane	7.7	**4.5 J**

Station Location	MW003
Sample ID	A11-MW003-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,4-Dioxane	7.7	**4.6**
Ethyl Benzene	700	**256**
Isopropyl Benzene	700	**38.5**
Naphthalene	140	**16.6**
Xylenes - Total	10000	**6310**

Station Location	MW130A
Sample ID	A11-MW130A-201201
Sample Date	12/1/2020
Analyte Name	RG	
1,1,1-Trichloroethane	200	**3.51**
1,1-Dichloroethane	1400	**3.77**
1,4-Dioxane	7.7	**4**

LEGEND

Groundwater Sampling Location

Area of Interest

Area 11 Boundary

Notes:
- All results in microgram per liter
- Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
- Shaded result exceeds remediation goal
- J = Estimated result

** = Field Duplicate Sample

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

0 250 500 Feet

Figure 9 - VOCs with RG Detections, December 2020

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Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Figure 10
Toluene Concentrations in MW004A Since 2011
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

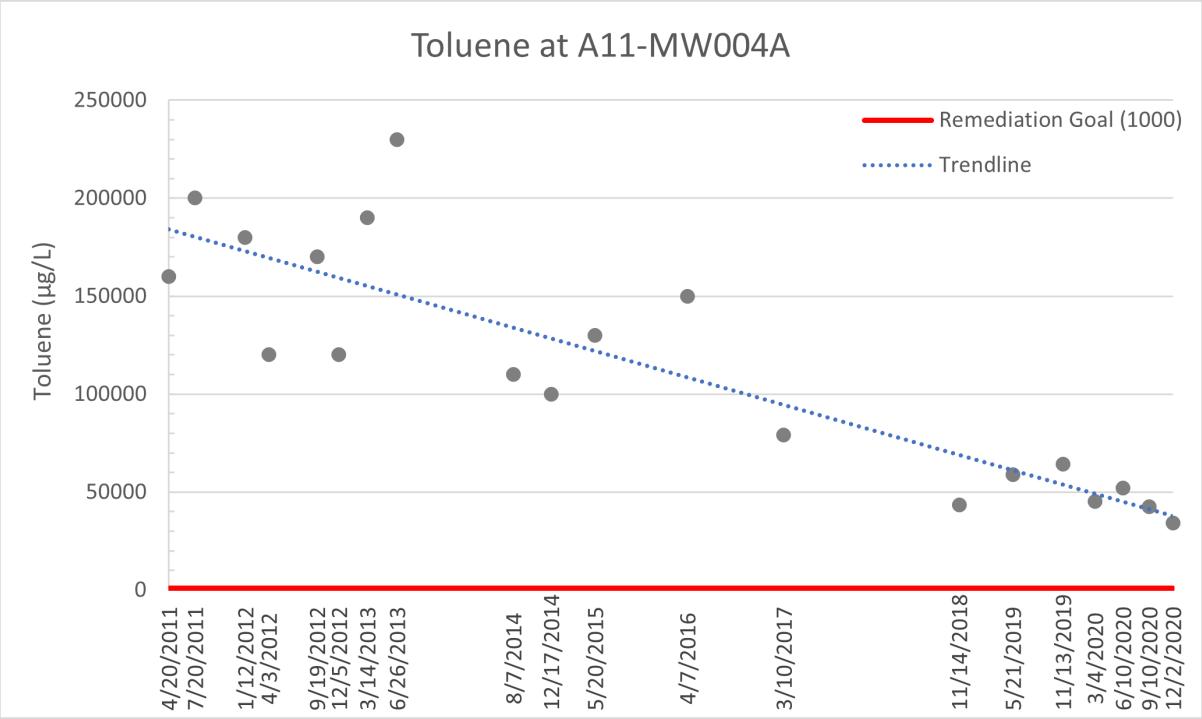
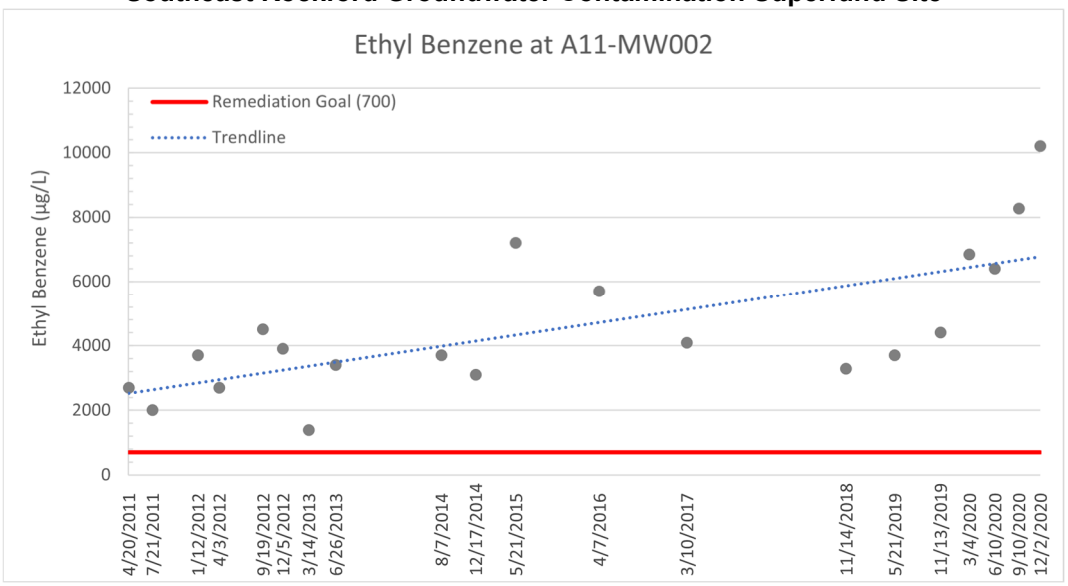
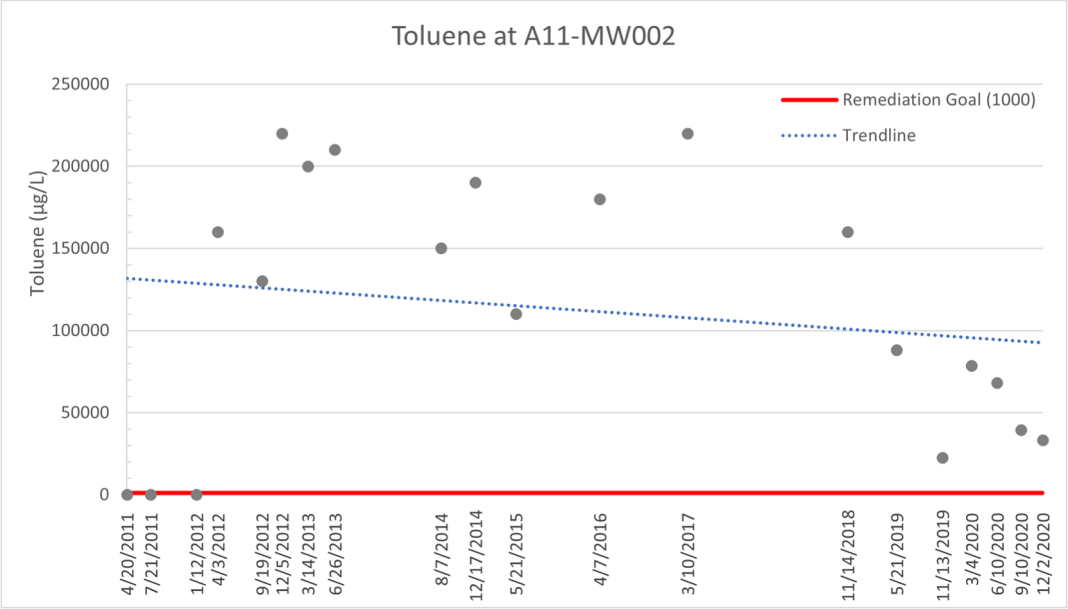


Figure 11
ETX Concentrations in MW002 Since 2011
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site





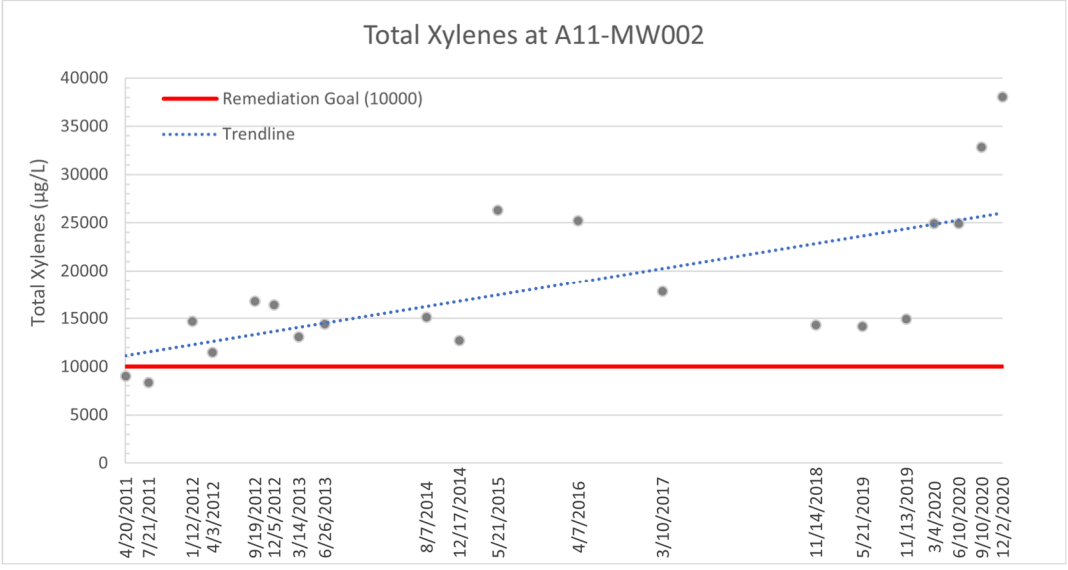
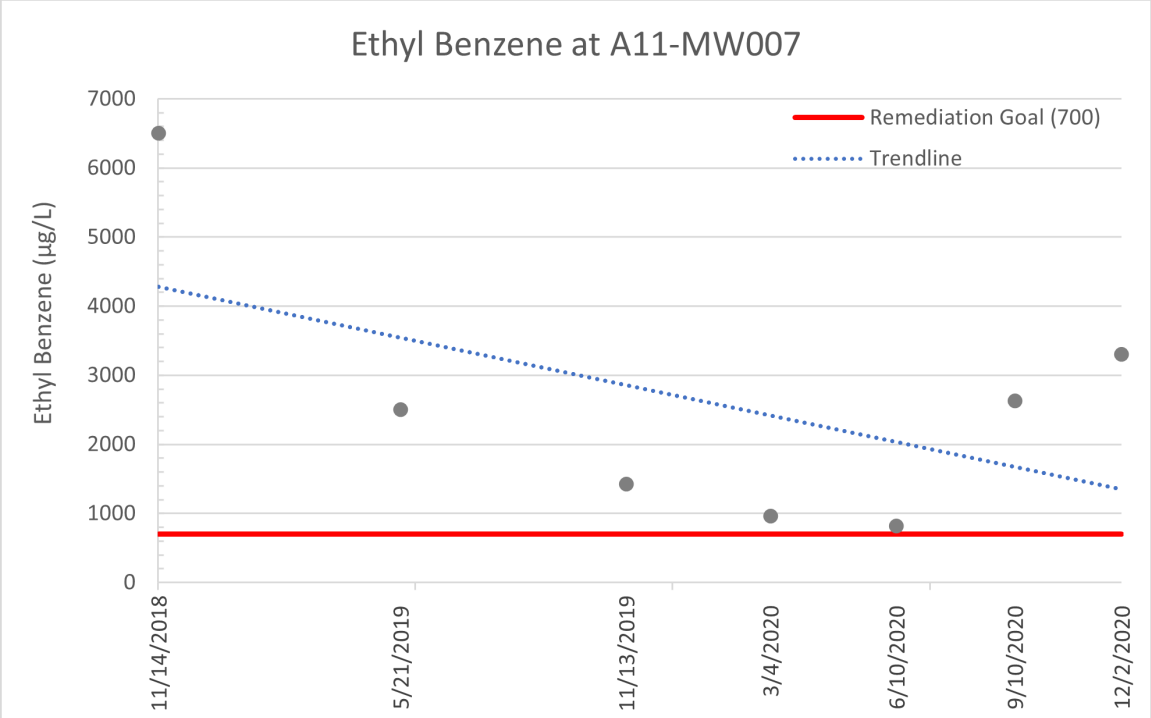


Figure 12
Ethylbenzene Concentrations in MW007 Since 2018
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site



Tables

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Table 1
2020 Groundwater Sampling Dates
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Sampling Event	MW001	MW002	MW003	MW004A	MW004B	MW005	MW006	MW007	MW130A
1st Quarterly 2020	3/3/2020	3/4/2020	3/4/2020	3/4/2020	3/3/2020	3/3/2020	3/3/2020	3/4/2020	NS
2nd Quarterly 2020	6/9/2020	6/10/2020	6/10/2020	6/10/2020	6/9/2020	6/9/2020	6/9/2020	6/10/2020	NS
3rd Quarterly 2020	9/9/2020	9/10/2020	9/10/2020	9/10/2020	9/9/2020	9/9/2020	9/9/2020	9/10/2020	9/9/2020
4th Quarterly 2020	12/1/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/1/2020	12/1/2020	12/2/2020	12/1/2020

NS – Not Sampled

Table 2
Source Area 11 Groundwater Monitoring Well Details
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Well Number	Depth to Screen Base from Ground Surface	Ground Surface Elevation	Top of Casing Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Screen Length	Aquifer Screened
MW130A	37.5	728.09	728.04	700.59	690.59	10	unconsolidated
MW001	50	731.44	731.05	691.57	681.57	10	unconsolidated
MW002	50	728.18	727.78	688.36	678.36	10	unconsolidated
MW003	50	728.55	728.11	688.96	678.96	10	unconsolidated
MW004A	40	730.08	729.66	700.12	690.12	10	unconsolidated
MW004B	80	730.39	730.5	660.5	650.5	10	unconsolidated
MW005	48	728.35	727.95	689.95	679.95	10	unconsolidated
MW006	51	727.41	727.05	686.27	676.27	10	unconsolidated
MW007	45	727.8	727.44	692.5	682.5	10	unconsolidated
MW125*	46	727.75	727.75	691.9	681.9	10	unconsolidated
MW126A*	55	727.8	727.84	682.9	672.9	10	unconsolidated
MW127*	42	726.54	728.5	694.7	684.7	10	unconsolidated
MW129*	32	732.11	731.6	705.1	700.1	5	unconsolidated
MW202*	50	729.19	729.06	689.5	679.5	10	unconsolidated
MW16*	53	725.51	725.33	677.8	672.8	5	unconsolidated
MW22A*	38.5	730.67	730.35	702.2	692.2	10	unconsolidated
MW32*	45	734.16	733.84	699.2	689.2	10	unconsolidated
MW-37*	44	725.08	725.05	686.1	681.1	5	unconsolidated
MW38*	48	728.79	728.28	685.2	680.2	5	unconsolidated

Note: * = Water level only

Table 3
2020 Observed Groundwater Elevations
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Well ID	Top of Casing Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft AMSL)
		March 2, 2020		June 8, 2020		October 15, 2020		November 30, 2020	
MW001	731.05	26.92	704.13	26.36	704.70	27.52	703.53	28.11	702.94
MW002	727.78	24.39	703.39	23.78	704.00	24.93	702.85	25.57	702.21
MW003	728.11	24.68	703.43	24.06	704.05	25.28	702.83	25.86	702.25
MW004A	729.66	26.09	703.57	25.46	704.20	26.66	703.00	27.26	702.40
MW004B*	730.50	25.68	704.82	25.10	705.40	26.27	704.23	26.88	703.62
MW005	727.95	25.33	702.62	24.64	703.31	25.85	702.10	26.45	701.50
MW006	727.05	25.49	701.56	24.76	702.29	26.02	701.03	26.60	700.45
MW007	727.44	24.19	703.25	23.59	703.85	24.82	702.62	25.38	702.06
MW130A	728.04	NA	NA	NA	NA	19.44	708.60	20.05	707.99
MW16	725.33	18.60	706.73	17.92	707.41	19.02	706.31	19.64	705.69
MW127	728.50	26.54	701.96	25.82	702.68	27.08	701.42	27.63	700.87
MW129	731.60	26.95	704.65	26.39	705.21	27.43	704.17	28.17	703.43
MW202	729.06	23.39	705.67	24.81	704.25	26.03	703.03	26.61	702.45
MW32	733.84	NA	NA	NA	NA	23.48	710.36	24.19	709.65
MW22A	730.35	NA	NA	NA	NA	21.47	708.88	22.16	708.19
MW37	725.05	NA	NA	22.96	702.09	17.65	707.40	18.30	706.75
MW38	728.28	NA	NA	29.85	698.43	24.09	704.19	24.74	703.54
MW125	727.75	NA	NA	NA	NA	27.38	700.37	27.88	699.87
MW126A	727.84	NA	NA	NA	NA	28.01	699.83	28.47	699.37

Notes:

* well not included in potentiometric surface maps

AMSL = above mean sea level

BTOC = below top of casing

ft = feet

NA = not available

Table 4
2020 Final Stabilized Field Parameter Readings for Monitoring Well Purging
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Flowrate mL/min	pH	Specific Cond. (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temp (°C)	ORP (mV)	Dissolved Ferrous Iron (mg/L)	Purged Min.
Mar-20									
MW001	NA	7.27	1.41	9.3	5.06	12.08	118	0.04	50
MW002	NA	6.54	1.36	22	0.83	13.61	-116	1.76	35
MW003	NA	6.62	1.35	17.7	3.39	12.12	-122	1.32	30
MW004A	NA	6.74	1.09	5.7	3.53	12.44	-134	2.4	25
MW004B	NA	7.42	1.18	100	1.66	12.26	37	0.1	50
MW005	NA	7.47	1.26	20.2	4.6	10.36	70	0.002	55
MW006	NA	7.38	1.35	0.6	0.78	12.92	-110	1.72	25
MW007	NA	6.75	0.868	10.1	6.75	10.3	-131	1.8	35
Jun-20									
MW001	NA	6.75	1.21	58	8.48	17.73	71	0.1	50
MW002	250	6.65	1.33	19	2.5	17.99	-106	4.58	35
MW003	400	6.94	1.26	11.1	3.54	15.26	-131	3.48	50
MW004A	400	7.01	1.12	2.6	5.41	14.22	-272	2.39	50
MW004B	500	6.78	1.18	26.4	3.11	17.31	5	0.18	35
MW005	450	6.8	1.43	32.8	5.24	17.71	134	ND	25
MW006	400	6.8	1.49	4.8	3.11	15.71	-115	3.84	35
MW007	350	6.94	0.992	4	4.2	16.42	-140	2.39	25
Sep-20									
MW001	300	6.93	1.28	81	3.84	14.31	64	0.02	45
MW002	250	6.71	1.37	13.3	0.33	15.73	-116	2.14	40
MW003	400	7.03	1.26	9.9	0.44	14.13	-140	2.52	45
MW004A	325	7.13	1.29	9.8	4.5	14.44	-226	1.12	60
MW004B	300	7.04	1.25	13.1	2.8	14.05	41	ND	55
MW005	425	7	1.26	10	3.73	14.43	78	ND	50
MW006	275	6.94	1.36	12.3	0.49	14.88	-133	2.19	30
MW007	400	6.57	1.94	9.9	0.34	14.82	-126	4.98	45
MW130A	425	6.69	1.18	9.8	2.44	13.85	24	NA	45
Dec-20									
MW001	475	8.02	1.19	12	5.69	12.08	20	ND	90
MW002	350	7.21	1.43	199	0.39	14.18	-109	2.7	60
MW003	375	7.55	1.34	7	0.62	11.75	-158	3.85	45
MW004A	330	7.43	1.34	3.6	0.54	12.34	-276	2.61	40
MW004B	400	7.39	1.4	32	4.15	10.93	94	0.73	65
MW005	500	7.16	1.49	39.9	4.85	12.84	160	0.03	60
MW006	500	7.92	1.38	2.7	1.33	12.66	-150	2.96	45
MW007	450	7.02	1.38	20.7	0.5	12.57	-128	2.86	40
MW130A	350	7.9	1.17	27.2	2.19	10.71	-21	0.19	60

NA = Not Available

ND = Non-Detect

Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW001	A11-MW001	A11-MW001	A11-MW001
	Sample ID	A11-MW001-200303	A11-MW001-200609	A11-MW001-200909	A11-MW001-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**6.74 J**	**8.9**	**7.58 J**	**9.02**
1,1-Dichloroethane	1400	**4.51**	**7.5**	**5.16**	**4.94**
1,1-Dichloroethene	7	2.00 U	**1.4**	2.00 U	2.00 U
1,4-Dioxane	7.7	**6.85**	**14.1**	0.205 U	**5**
cis-1,2-Dichloroethene	70	2.00 U	**1.4**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**1**	2.00 U	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.17 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**2.5**	**2.41**	**2.15**

	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	Sample ID	A11-MW002-200304	A11-MW002-200610	A11-MW002-200910	A11-MW002-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	100 U	**1 J**	50.0 U	50.0 U
1,1-Dichloroethane	1400	100 U	**6.4**	50.0 U	50.0 U
1,1-Dichloroethene	7	100 U	5 U	50.0 U	50.0 U
1,2,4-Trimethylbenzene	--	**822**	NA	**622**	**588**
1,2-Dichlorobenzene	600	100 U	**5**	50.0 U	50.0 U
1,3,5-Trimethylbenzene	--	**285**	NA	**202**	**161**
1,4-Dioxane	7.7	**3.31**	**4.03**	**2.9**	**1.1**
Acetone	6300	625 UJ	**2.7 J**	312 U	312 U
cis-1,2-Dichloroethene	70	100 U	**32**	50.0 U	50.0 U
Cyclohexane	--	NA	**120**	NA	NA
Ethyl Benzene	700	**6840**	**6400**	**8260**	**10200**
Isopropyl Benzene	700	**121**	**98**	**90**	**78.1**
Methyl Acetate	--	NA	**11**	NA	NA
Methylcylohexane	--	NA	**570 J**	NA	NA
Naphthalene	140	100 U	NA	**55.2**	**58.5**
n-Propylbenzene	--	**215**	NA	**129**	**87.4**
Toluene	1000	**78600**	**68000 J**	**39300**	**33200**
Trichloroethene	5	100 U	**0.86 J**	50.0 U	50.0 U
Vinyl Chloride	2	100 U	**4.4 J**	50.0 U	50.0 U
Xylenes - Total	10000	**24900**	**24900**	**32820**	**38040**

Notes:
All results in microgram per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded result exceeds remediation goal
U = Not detected above the reported limit
J = Estimated result
N = Normal Sample
** = Field Duplicate Sample

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW003	A11-MW003	A11-MW003	A11-MW003
	Sample ID	A11-MW003-200304	A11-MW003-200610	A11-MW003-200910	A11-MW003-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	20.0 U	**1.3 J**	10.0 U	10.0 U
1,1-Dichloroethane	1400	20.0 U	**6.9**	10.0 U	10.0 U
1,2,4-Trimethylbenzene	--	**329**	NA	**113**	**178**
1,3,5-Trimethylbenzene	--	**121**	NA	**34.8**	**55**
1,4-Dioxane	7.7	**8.57**	**9.58**	**7.23**	**4.6**
4-Methyl 2-Pentanone	--	50.0 U	**2.2 J**	25.0 U	25.0 U
Chloroethane	--	20.0 U	**1.9 J**	10.0 U	10.0 U
Cyclohexane	--	NA	**7.8**	NA	NA
Ethyl Benzene	700	**1500**	**430 J**	**201**	**256**
Isopropyl Benzene	700	**74.4**	**45**	**28.3**	**38.5**
Methylcylohexane	--	NA	**59**	NA	
Naphthalene	140	**29.1**	NA	10.0 U	**16.6**
n-Butylbenzene	--	**23.7**	NA	10.0 U	**13.1**
n-Propylbenzene	--	**76**	NA	**28.2**	**37.3**
sec-Butylbenzene	--	**27.8**	NA	**12**	**15**
Toluene	1000	**38.4**	**7.6 J**	10.0 U	10.0 U
Xylenes - Total	10000	**13000**	**5105.2**	**2430**	**6310**

	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	Sample ID	A11-MW004A-200304	A11-MW004A-200610	A11-MW004A-200910	A11-MW004A-201201
	Sample Date	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	50.0 U	**3.7 J**	50.0 U	50.0 U
1,4-Dioxane	7.7	**1.41**	**1.51**	**1.09**	**0.15 J**
Cyclohexane	--	NA	**0.83 J**	NA	NA
Ethyl Benzene	700	**260**	**330 J**	**365**	**331**
Isopropyl Benzene	700	50.0 U	**2.1 J**	50.0 U	50.0 U
Methylcylohexane	--	NA	**21**	NA	NA
Tetrachloroethene	5	50.0 U	**5.3**	50.0 U	50.0 U
Toluene	1000	**45300**	**52000**	**42600**	**34200**
Trichloroethene	5	50.0 U	**1 J**	50.0 U	50.0 U
Xylenes - Total	10000	**414**	**531 J**	**604.6**	**541.2**

Notes:
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** = Field Duplicate Sample

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B
	Sample ID	A11-MW004B-200303	A11-MW004B-200609	A11-MW004B-200909	A11-MW004B-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**5.29 J**	**5.5**	**4.93 J**	**5.61**
1,1-Dichloroethane	1400	**5.86**	**6.3**	**5.34**	**5.67**
1,1-Dichloroethene	7	2.00 U	**0.95**	2.00 U	2.00 U
1,4-Dioxane	7.7	**9.75**	**11.7**	**7.86**	**6.3**
cis-1,2-Dichloroethene	70	2.00 U	**1.3**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**0.4 J**	2.00 U	2.00 U
Toluene	1000	2.00 U	**1.6**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.16 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**1.4**	2.00 U	2.00 U

	Station Location	A11-MW005	A11-MW005	A11-MW005	A11-MW005
	Sample ID	A11-MW005-200303	A11-MW005-200609	A11-MW005-200909	A11-MW005-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1,1-Trichloroethane	200	**2.92 J**	**4.5**	**5.56 J**	**4.9**
1,1-Dichloroethane	1400	**3.77**	**6.4**	**9.11**	**7.01**
1,1-Dichloroethene	7	2.00 U	**1.1**	2.00 UJ	2.00 U
1,4-Dioxane	7.7	**5.35**	**8.83**	**8.18 J**	**4.5 J**
Bromodichloromethane	0.2*	2.00 U	**0.4 J**	2.00 U	2.00 U
Chloroform	70	2.00 U	**0.45 J**	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	2.00 U	**1.3**	2.00 U	2.00 U
Dibromochloromethane	140*	2.00 U	**0.18 J**	2.00 U	2.00 U
Tetrachloroethene	5	2.00 U	**0.39 J**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	2.00 U	**0.15 J**	2.00 UJ	2.00 U
Trichloroethene	5	2.00 U	**0.89**	2.00 UJ	2.00 U

	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	Sample ID	A11-MW006-200303	A11-MW006-200609	A11-MW006-200909	A11-MW006-201201
	Sample Date	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**				
1,1-Dichloroethane	1400	2.00 U	**0.11 J**	2.00 U	2.00 U
1,4-Dioxane	7.7	**1.54**	**7.53**	**8.42**	**4.1**
Benzene	5	**2.62**	**2**	**2.28**	**2.82**
Chloroethane	--	2.00 U	**0.44 J**	2.00 U	2.00 U
Cyclohexane	--	NA	**0.35 J**	NA	NA
Isopropyl Benzene	700	2.00 U	**0.14 J**	2.00 U	2.00 U
Trichloroethene	5	2.00 U	**0.14 J**	2.00 U	2.00 U

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Table 5
VOC Compounds Detected 2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**
	Sample ID	A11-MW007-200304	A11-MW007-200304-D	A11-MW007-200610	A11-MW007-200610-D	A11-MW007-200910	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample Date	3/4/2020	3/4/2020	6/10/2020	6/10/2020	9/10/2020	9/10/2020	12/2/2020	12/2/2020
Analyte Name	**RG**								
1,2,4-Trimethylbenzene	--	**22.6**	**21**	NA	NA	**53.5**	**55.7**	**131**	**169**
1,3,5-Trimethylbenzene	--	**4.84**	**4.57**	NA	NA	**11.1**	**11.6**	**14.4 J**	**56.7 J**
1,4-Dioxane	7.7	**3.38**	**3.3**	0.205 U	0.205 U	0.212 U	0.203 U	**0.069 J**	0.19 U
Benzene	**5**	4.00 U	4.00 U	5 U	5 U	10.0 U	10.0 U	10.0 UJ	**44.3 J**
Ethyl Benzene	**700**	**959**	**863**	**820**	**810**	**2630**	**2680**	**3300**	**3660**
Isopropyl Benzene	700	**12**	**11**	**6.5**	**6.5**	**86.1**	**89.1**	**109 J**	**486 J**
Methylcylohexane	--	NA	NA	**2.7 J**	**2.6 J**	NA	NA	NA	NA
Naphthalene	140	4.00 U	4.00 U	NA	NA	**11.4**	**13.2**	**34.0 J**	**97.3 J**
n-Butylbenzene	--	4.00 U	4.00 U	NA	NA	**11.3**	**12.4**	**19.9 J**	**66.9 J**
n-Propylbenzene	--	**6.68**	**6.03**	NA	NA	**82.4**	**84.7**	**104 J**	**454 J**
sec-Butylbenzene	--	4.00 U	4.00 U	NA	NA	**10.8**	**11.3**	**17.5 J**	**68.4 J**
Tetrachloroethene	5	4.00 U	4.00 U	**1 J**	**0.89 J**	10.0 U	10.0 U	10.0 U	10.0 U
Xylenes - Total	10000	**3050**	**2800**	**2600**	**2600**	**7600**	**7920**	**7390**	**8100**

	Station Location	A11-MW130A	A11-MW130A
	Sample ID	A11-MW130A-200909	A11-MW130A-201201
	Sample Date	9/9/2020	12/1/2020
Analyte Name	**RG**		
1,1,1-Trichloroethane	200	**3.51 J**	**3.51**
1,1-Dichloroethane	1400	**4.11**	**3.77**
1,4-Dioxane	7.7	**6.1**	**4**

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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
EPA Sample ID		E52H2	E52L5	E52R7	E52S7	E3XB9	E3XC9	E3XF8	E3XG8	E3XP2	E3XQ3	E3XX1
Sample ID		A11-MW001-110419	A11-MW001-110720	A11-MW001-120111	A11-MW001-04/02/2012	A11-MW001-120918	A11-MW001-121204	A11-MW001-130314	A11-MW001-130625	A11-MW001-140806	A11-MW001-141217	A11-MW001-150520
Sample Date		4/19/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/14/2013	6/25/2013	8/6/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**240**	**210 D**	**200**	**210 D**	**150 J**	**34**	**36 D**	**47 D**	**15**	**18**	**17 J-**
1,1,2-Trichloroethane	5	20 U	**0.41 J**	5 U	**0.44 J**	5 U	5 U	0.5 U	**0.068 J**	0.5 U	0.5 UJ	0.5 UJ
1,1-Dichloroethane	1400	**24**	**21**	**25**	**18**	**7.6**	**2.9 J**	**4.3**	**5.7**	**3**	**4.1 J**	**5 J-**
1,1-Dichloroethene	7	**11 J**	**11**	5 U	**11**	**9.4**	5 U	**3.2**	**3.8**	**1.1 J**	**2.1**	**1.9 J-**
1,4-Dioxane	7.7	400 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA	NA	NA
Carbon Tetrachloride	5	20 U	5 U	5 U	5.0 U	5 U	**3.8 J**	0.5 U	0.5 U	0.5 U	0.5 U	**2.3 J-**
cis-1,2-Dichloroethene	70	**9.4 J**	**7.9**	**9.2**	**5.8**	**2.9 J**	**1.4 J**	**2.3**	**3**	**1.5 J**	**1.6**	**1.8 J-**
Ethyl Benzene	700	20 U	**0.25 J**	5 U	5.0 U	5 U	5 U	**0.14 J**	**0.12 J**	**0.18 J**	0.5 UJ	0.5 UJ
Isopropyl Benzene	700	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.26 J**	0.5 U	0.5 UJ	0.5 UJ
Tetrachloroethene	5	**3.5 J**	**3.7 J**	**4.6 J**	**4.0 J**	**4.4 J**	**2.7 J**	**1.8**	**2.8**	**1.1**	**1.3 J**	**1.3 J-**
Toluene	1000	20 U	5 U	5 U	**0.68 J**	**0.92 J**	5 U	0.5 U	**0.52**	1 U	0.5 UJ	**0.5 UJ**
trans-1,2-Dichloroethene	100	20 U	5 U	5 U	5.0 U	5 U	5 U	**0.1 J**	**0.13 J**	0.5 U	0.5 U	**0.13 J-**
Trichloroethene	5	**8.6 J**	**6.1**	**4.7 J**	**4.2 J**	**4.1 J**	**2.3 J**	**2.2**	**4**	**1.5**	**1.7 J**	**2.1 J-**
Trichlorofluoromethane (Freon 11)	2100	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.19 J-**
Vinyl Chloride	2	20 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Xylenes (Total)	10000	40 U	0.5 J	5 U	5 U	5 U	5 U	0.47 J	0.65 J	0.26 J	0.5 UJ	0.5 UJ

Station Location		A11-MW001	A11-MW001	A11-MW001**	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001	A11-MW001
EPA Sample ID		E3XZ8	E3Y44	E3Y45	E3YA2	E3YF1		A11-MW001-200303	E3YG2	A11-MW001-200909	E3YJ1
Sample ID		A11-MW001-160406	A11-MW001-170309	A11-MW001-170309-D	A11-MW001-181113	A11-MW001-190520	A11-MW001-191112	A11-MW001-200303	A11-MW001-200609	A11-MW001-200909	A11-MW001-201201
Sample Date		4/6/2016	3/9/2017	3/9/2017	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**17**	**11**	**12**	**9.3**	**22**	**7.21**	**6.74 J**	**8.9**	**7.58 J**	**9.02**
1,1,2-Trichloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	**6.5**	**6.2**	**6.9**	**9.8**	**20**	**5.25**	**4.51**	**7.5**	**5.16**	**4.94**
1,1-Dichloroethene	7	0.5 U	**1.4**	**1.5**	**1.7**	**4.6**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**12.2**	**6.85**	**14.1**	0.205 U	**5**
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**1.4**	**1.3**	**1.4**	**1.7**	**3.4**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
Ethyl Benzene	700	**0.15 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	0.5 U	0.5 U	0.5 U	0.5 U	0.5 R	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Tetrachloroethene	5	**1.2**	**0.81**	**0.89**	**1**	**2.7**	2.00 U	2.00 U	**1**	2.00 U	2.00 U
Toluene	1000	0.5 U	**0.09 J**	**0.1 J**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	**0.17 J**	**0.14 J**	**0.16 J**	**0.25 J**	**0.46 J**	2.00 U	2.00 U	**0.17 J**	2.00 U	2.00 U
Trichloroethene	5	**2.8**	**2.2**	**2.4**	**3.7**	**4.7**	2.00 U	2.00 U	**2.5**	**2.41**	**2.15**
Trichlorofluoromethane (Freon 11)	2100	**0.32 J**	0.5 U	0.5 U	**0.15 J**	**0.32 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Vinyl Chloride	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	0.85	0.5 U	**0.11 J**	0.5 U	0.3 J+	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
	EPA Sample ID	E52K7	E52N5	E52S4	E52S8	E3XC0	E3XD0	E3XF9	E3XH0	E3XP7	E3XQ7	E3XX5
	Sample ID	A11-MW002-110420	A11-MW002-110721	A11-MW002-120112	A11-MW002-04/03/2012	A11-MW002-120919	A11-MW002-121205	A11-MW002-130314	A11-MW002-130626	A11-MW002-140807	A11-MW002-141217	A11-MW002-150521
	Sample Date	4/20/2011	7/21/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/21/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	5 U	50 U	500 U	250 U	1000 U	4000 U	**110 J**	**34**	6300 U	1000 U	**73 J-**
1,1,2-Trichloroethane	5	**10**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 U	1000 U	1000 UJ
1,1-Dichloroethane	1400	**9.5**	50 U	500 U	**78 J**	1000 U	4000 U	**76**	**46**	6300 U	1000 U	1000 UJ
1,1-Dichloroethene	7	5 U	50 U	500 U	250 U	1000 U	4000 U	**43**	5 U	6300 U	1000 U	1000 UJ
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	5 U	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 U	1000 U	1000 UJ
1,2-Dichloropropane	5	**7.6**	50 U	500 U	250 U	1000 U	4000 U	5 UJ	5 UJ	6300 U	1000 U	1000 UJ
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.7	100 R	1000 R	10000 R	5000 R	20000 R	80000 U	100 R	100 R	130000 R	20000 R	20000 R
2-Butanone	4200	10 U	100 U	1000 U	500 U	2000 U	8000 U	**58**	**27**	13000 U	2000 U	2000 UJ
2-Hexanone	--	10 U	100 U	1000 U	500 U	2000 U	8000 U	10 U	10 U	13000 U	2000 U	**4900 J-D**
4-Methyl 2-Pentanone	--	10 U	100 U	1000 U	500 U	2000 U	8000 U	**16**	**2.2 J**	13000 U	2000 U	2000 UJ
Acetone	6300	20 U	100 U	1000 U	1000 U	2000 U	8000 U	10 U	**7.1 J**	13000 U	2000 U	2000 UJ
Benzene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 UJ	**5.3**	6300 U	1000 U	1000 UJ
Chloroethane	--	**11**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 UJ	1000 U	1000 UJ
cis-1,2-Dichloroethene	70	5 U	50 U	500 U	**100 J**	1000 U	4000 U	**160**	**69**	6300 U	1000 U	**88 J-**
Cyclohexane	--	**98**	**81**	500 U	**82 J**	1000 U	4000 U	**100 J**	**170 J**	6300 U	1000 U	1000 UJ
Dichlorodifluoromethane (Freon 12)	1400	**5.7**	50 U	500 U	250 U	1000 U	4000 U	5 U	5 U	6300 UJ	1000 U	1000 UJ
Ethyl Benzene	700	**2700 JD**	**2000 D**	**3700**	**2700**	**1500**	**3900 J**	**1400 J**	**3400 D**	**3700 J**	**3100**	**7200 J-D**
Isopropyl Benzene	700	**75**	**94**	500 U	**72 J**	1000 U	4000 U	**53 J**	**85 J**	6300 U	1000 U	**77 J-**
Methyl Acetate	--	5 U	50 U	500 U	250 U	1000 U	4000 U	5 U	**2.8 J**	6300 U	1000 U	1000 UJ
Methylcylohexane	--	**71 JD**	**420**	**280 J**	**340**	**230 J**	4000 U	**440 J**	**590 D**	6300 U	1000 U	**470 J-**
Naphthalene	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	5 UJ	6300 U	1000 U	1000 UJ
Tetrachloroethene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	**2.4 J**	6300 U	1000 U	1000 UJ
Toluene	1000	**110**	50 U	NA	**160000 D**	**360 J**	**220000 D**	**200000 D**	**210000 D**	**150000**	**190000 D**	**110000 J-D**
Trichloroethene	5	5 U	50 U	500 U	250 U	1000 U	4000 U	5 R	**7.6 J**	6300 U	1000 U	1000 UJ
Vinyl Chloride	2	5 U	50 U	500 U	250 U	1000 U	4000 U	**12**	5 U	6300 U	1000 U	1000 UJ
Xylenes (Total)	10000	**9010 JD**	**8371 D**	**14700**	**11500**	**11000**	**16400**	**13100**	**14400**	**15100**	**12700**	**26300**

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Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002	A11-MW002
EPA Sample ID		E3XZ9	E3Y50	E3YA3	E3YF7		A11-MW002-200304	E3YG8	A11-MW002-200910	A11-MW002-201201
Sample ID		A11-MW002-160407	A11-MW002-170310	A11-MW002-181114	A11-MW002-190521	A11-MW002-191113	A11-MW002-200304	A11-MW002-200610	A11-MW002-200910	A11-MW002-201201
Sample Date		4/7/2016	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**									
1,1,1-Trichloroethane	200	**190 J**	1000 U	250 U	2500 U	200 U	100 U	**1 J**	50.0 U	50.0 U
1,1,2-Trichloroethane	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,1-Dichloroethane	1400	500 U	1000 U	250 U	2500 U	200 U	100 U	**6.4**	50.0 U	50.0 U
1,1-Dichloroethene	7	500 U	1000 UJ	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**403**	**822**	NA	**622**	**588**
1,2-Dichlorobenzene	600	500 U	1000 U	250 U	2500 U	200 U	100 U	**5**	50.0 U	50.0 U
1,2-Dichloropropane	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	200 U	**285**	NA	**202**	**161**
1,4-Dioxane	7.7	NA	NA	NA	NA	**4.42**	**3.31**	**4.03**	**2.9**	**1.1**
2-Butanone	4200	1000 U	2000 U	500 U	5000 U	NA	625 U	10 U	312 U	312 U
2-Hexanone	--	1000 U	2000 U	500 U	5000 U	NA	250 U	10 U	125 U	125 U
4-Methyl 2-Pentanone	--	1000 U	2000 U	500 U	5000 U	NA	250 U	10 U		125 U
Acetone	6300	1000 U	2000 U	500 U	5000 U	NA	625 UJ	**2.7 J**	312 U	312 U
Benzene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
Chloroethane	--	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
cis-1,2-Dichloroethene	70	**140 J**	1000 UJ	**170 J**	2500 U	200 U	100 U	**32**	50.0 U	50.0 U
Cyclohexane	--	500 U	1000 U	**110 J**	2500 U	NA	NA	**120**	NA	NA
Dichlorodifluoromethane (Freon 12)	1400	500 U	1000 U	250 U	2500 U	200 UJ	100 U	5 U	50.0 UJ	50.0 U
Ethyl Benzene	700	**5700**	**4100**	**3300**	**3700**	**4420 J**	**6840**	**6400**	**8260**	**10200**
Isopropyl Benzene	700	500 U	1000 U	**93 J**	2500 U	200 U	**121**	**98**	**90**	**78.1**
Methyl Acetate	--	500 U	1000 U	250 U	2500 U	NA	NA	**11**	NA	NA
Methylcylohexane	--	**440 J**	**530 J**	**780**	**780 J**	NA	NA	**570 J**	NA	NA
Naphthalene	140	NA	NA	NA	NA	200 U	100 U	NA	**55.2**	**58.5**
n-Propylbenzene	--	NA	NA	NA	NA	200 U	**215**	NA	**129**	**87.4**
Styrene	100	500 U	1000 U	250 U	2500 U	**371**	100 U	5 U	50.0 U	50.0 U
Tetrachloroethene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	5 U	50.0 U	50.0 U
Toluene	1000	**180000 J**	**220000 J**	**160000 J**	**88000**	**22500 J**	**78600**	**68000 J**	**39300**	**33200**
Trichloroethene	5	500 U	1000 U	250 U	2500 U	200 U	100 U	**0.86 J**	50.0 U	50.0 U
Vinyl Chloride	2	500 U	1000 U	250 U	2500 U	200 U	100 U	**4.4 J**	50.0 U	50.0 U
Xylenes (Total)	10000	**25200**	**17800**	3300	**14200**	**14930 J**	**24900**	**24900**	**32820**	**38040**

Notes:
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** = Duplicate sample
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CDM Smith

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003
EPA Sample ID		E52K8	E52N6	E52S3	E52S9	E3XC1	E3XD1	E3XG0	E3XG9	E3XP8	E3XQ8	E3XX6
Sample ID		A11-MW003-110420	A11-MW003-110721	A11-MW003-1201112	A11-MW003-04/03/2012	A11-MW003-120919	A11-MW003-121205	A11-MW003-130314	A11-MW003-130626	A11-MW003-140807	A11-MW003-141217	A11-MW003-150520
Sample Date		4/20/2011	7/21/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	1000 U	**27**	200 U	50 U	5000 U	130 U	130 U	**7.4**	130 U	50 U	50 UJ
1,1-Dichloroethane	1400	1000 U	**20**	200 U	**11 J**	5000 U	130 U	130 U	**9.2**	130 U	**5.5 J**	**4.8 J-**
1,1-Dichloroethene	7	**130 J**	10 U	200 U	50 U	5000 U	130 U	130 U	5 U	130 U	50 U	50 UJ
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	7.7	**9300 J**	200 R	4000 R	1000 R	100000 R	2500 U	2500 R	100 R	2500 R	1000 R	1000 R
2-Chlorotoluene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl 2-Pentanone	--	2000 U	20 U	400 U	100 U	10000 U	250 U	250 U	10 U	250 U	100 U	100 UJ
Acetone	6300	4000 U	40 U	400 U	100 U	10000 U	250 U	250 U	10 U	250 U	100 U	100 UJ
Chloroethane	--	1000 U	10 U	200 U	50 U	5000 U	130 U	130 U	**4.2 J**	130 U	50 U	50 UJ
cis-1,2-Dichloroethene	70	1000 U	**2.7 J**	200 U	50 U	5000 U	130 U	130 U	**1.3 J**	130 U	50 U	50 UJ
Cyclohexane	--	1000 U	**4.7 J**	200 U	**10 J**	5000 U	130 U	130 U	5 U	130 U	50 U	50 UJ
Ethyl Benzene	700	**1200**	**420 D**	**3000**	**1300**	**4500 J**	**300**	**92 J**	**40 J**	**730**	**78**	**320 J-**
Isopropyl Benzene	700	1000 U	**31**	**85 J**	**66**	5000 U	130 U	**53 J**	**58**	130 U	**36 J**	**51 J-**
Methylcylohexane	--	1000 U	**35**	**160 J**	**91**	5000 U	**140**	**140**	**160**	**380**	**250**	50 UJ
Methylene Chloride	5	1000 U	**0.65 J**	200 U	100 U	5000 U	5 U	130 U	5 U	130 U	50 U	100 UJ
Naphthalene	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	1000	**1000**	10 U	**1000**	**550**	**130000**	**980**	130 U	**32 J**	**620**	**96**	**160 J-**
Trichloroethene	5	1000 U	10 U	200 U	50 U	5000 U	130 U	130 U	**0.53 J**	130 U	50 U	50 UJ
Xylenes (Total)	10000	**5400 J**	**3003**	**12200 D**	**11025 D**	**16800**	9830	**4200**	**1400 D**	**3200**	**1200**	**4300 DJ-**

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Table 6
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Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003	A11-MW003
EPA Sample ID		E3Y00	E3Y51	E3YA4	E3YF4		A11-MW003-200304	E3YG5	A11-MW003-200910	A11-MW003-200910	A11-MW003-201201
Sample ID		A11-MW003-160407	A11-MW003-170310	A11-MW003-181114	A11-MW003-190521	A11-MW003-191113	A11-MW003-200304	A11-MW003-200610	A11-MW003-200910	A11-MW003-200910	A11-MW003-201201
Sample Date		4/7/2016	3/10/2017	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**2.3 J**	250 U	100 U	250 U	10.0 U	20.0 U	**1.3 J**	10.0 U	10.0 U	
1,1-Dichloroethane	1400	**5.3**	250 U	100 U	250 U	10.0 U	20.0 U	**6.9**	10.0 U	10.0 U	
1,1-Dichloroethene	7	5 UJ	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**137**	**329**	NA	**113**	**178**	
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	**47.1**	**121**	NA	**34.8**	**55**	
1,4-Dioxane	7.7	NA	NA	NA	NA	**12**	**8.57**	**9.58**	**7.23**	**4.6**	
2-Chlorotoluene	--	NA	NA	NA	NA	**10.3**	20.0 U	NA	10.0 U	10.0 U	
4-Methyl 2-Pentanone	--	10 U	500 U	200 U	500 U	NA	50.0 U	**2.2 J**	25.0 U	25.0 U	
Acetone	6300	10 U	500 U	200 U	**78 J**	NA	125 UJ	10 U	62.5 U	62.5 U	
Chloroethane	--	5 U	250 U	100 U	250 U	10.0 U	20.0 U	**1.9 J**	10.0 U	10.0 U	
cis-1,2-Dichloroethene	70	**1.2 J-**	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Cyclohexane	--	**1.8 J**	250 U	100 U	250 U	NA	NA	**7.8**	NA	NA	
Ethyl Benzene	700	**33**	**450**	**130**	**160 J**	**144**	**1500**	**430 J**	**201**	**256**	
Isopropyl Benzene	700	**6.4**	250 U	100 U	**57 J**	**31.7**	**74.4**	**45**	**28.3**	**38.5**	
Methylcylohexane	--	**43**	250 U	100 U	**110 J**	NA	NA	**59**	NA	NA	
Methylene Chloride	5	5 U	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Naphthalene	140	NA	NA	NA	NA	**13.8**	**29.1**	NA	10.0 U	**16.6**	
n-Butylbenzene	--	NA	NA	NA	NA	10.0 U	**23.7**	NA	10.0 U	**13.1**	
n-Propylbenzene	--	NA	NA	NA	NA	**33.6**	**76**	NA	**28.2**	**37.3**	
sec-Butylbenzene	--	NA	NA	NA	NA	10.0 U	**27.8**	NA	**12**	**15**	
Toluene	1000	**23**	**190 J**	**54 J**	**570**	**133**	**38.4**	**7.6 J**	10.0 U	10.0 U	
Trichloroethene	5	5 U	250 U	100 U	250 U	10.0 U	20.0 U	5 U	10.0 U	10.0 U	
Xylenes (Total)	10000	**392.2 J**	**4900**	**3500**	**12000**	**2910**	**13000**	**5105.2**	**2430**	**6310**	

Station Location		A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
EPA Sample ID		E52K9	E52N1	E52S2	E52T0	E3XC2	E3XD2	E3XG1	E3XH1	E3XP9	E3XQ9	E3XX7
Sample ID		A11-MW004A-110420	A11-MW004A-110720	A11-MW004A-120112	A11-MW004A-04/03/2012	A11-MW004A-120919	A11-MW004A-121205	A11-MW004A-130314	A11-MW004A-130626	A11-MW004A-140807	A11-MW004A-141217	A11-MW004A-150520
Sample Date		4/20/2011	7/20/2011	1/12/2012	4/3/2012	9/19/2012	12/5/2012	3/14/2013	6/26/2013	8/7/2014	12/17/2014	5/20/2015
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	10000 U	1000 U	2500 U	**40 J**	5000 U	1000 U	500 U	**42**	5000 U	1000 U	1000 UJ
1,1-Dichloroethane	1400	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**2 J**	5000 U	1000 U	1000 UJ
1,1-Dichloroethene	7	**1100 J**	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**9.4**	5000 U	1000 U	1000 UJ
1,4-Dioxane	7.7	200000 R	20000 R	50000 R	5000 R	100000 R	20000 U	10000 R	100 R	100000 R	20000 R	20000 R
2-Butanone	4200	20000 U	2000 U	5000 U	500 U	10000 U	2000 U	1000 U	**1.2 J**	10000 U	2000 U	2000 UJ
Acetone	6300	40000 U	4000 U	5000 U	500 U	10000 U	2000 U	1000 U	**2 J**	10000 U	2000 U	2000 UJ
cis-1,2-Dichloroethene	70	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**17**	5000 U	1000 U	1000 UJ
Cyclohexane	--	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	5 U	5000 U	1000 U	1000 UJ
Ethyl Benzene	700	10000 U	**240 J**	**3000**	**400**	5000 U	**430 J**	**1100**	**810 D**	5000 U	**220 J**	**420 J-**
Isopropyl Benzene	700	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**7.1 J**	5000 U	1000 U	1000 UJ
Methylcylohexane	--	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**28 J**	5000 U	1000 U	1000 UJ
Styrene	100	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	5 UJ	5000 U	1000 U	1000 UJ
Tetrachloroethene	5	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**37 J**	5000 U	1000 U	1000 UJ
Toluene	1000	**160000**	**200000 D**	**180000 D**	**120000 D**	**170000**	**120000 D**	**190000 D**	**230000 D**	**110000**	**100000 D**	**130000 J-D**
Trichloroethene	5	10000 U	1000 U	2500 U	250 U	5000 U	1000 U	500 U	**5.8 J**	5000 U	1000 U	1000 UJ
Xylenes (Total)	10000	10000 U	419 J	**12400**	707 J	2100 J	2250 J	4570	3660	3900 J	430 J	98 J-

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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A**	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A	A11-MW004A
	EPA Sample ID	E3Y01	E3Y52	E3YA6	E3YA7	E3YF8		A11-MW004A-200304	E3YG9	A11-MW004A-200910	A11-MW004A-201201
	Sample ID	A11-MW004A-160407	A11-MW004A-170310	MW004A-181115	MW004A-181115-D	A11-MW004A-190521	A11-MW004A-191113	A11-MW004A-200304	A11-MW004A-200610	A11-MW004A-200910	A11-MW004A-201201
	Sample Date	4/7/2016	3/10/2017	11/14/2018	11/14/2018	5/21/2019	11/13/2019	3/4/2020	6/10/2020	9/10/2020	12/2/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**21**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**3.7 J**	50.0 U	50.0 U
1,1-Dichloroethane	1400	**1.3 J**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
1,1-Dichloroethene	7	5 U	250 UJ	2500 UJ	2500 UJ	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**1.2**	**1.41**	**1.51**	**1.09**	**0.15 J**
2-Butanone	4200	10 U	500 U	25000 U	25000 U	500 U	NA	312 U	10 U	312 U	312 U
Acetone	6300	10 U	500 U	25000 U	25000 U	**99 J**	NA	312 UJ	10 U	312 U	312 U
cis-1,2-Dichloroethene	70	**14**	250 UJ	2500 UJ	2500 UJ	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
Cyclohexane	--	5 U	250 U	2500 U	2500 U	250 U	NA	NA	**0.83 J**	NA	NA
Ethyl Benzene	700	**440 J**	**320**	2500 U	2500 U	**440**	**455**	**260**	**330 J**	**365**	**331**
Isopropyl Benzene	700	**4 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**2.1 J**	50.0 U	50.0 U
Methylcylohexane	--	**22**	250 U	2500 U	2500 U	250 U	NA	NA	**21**	NA	NA
Styrene	100	5 UJ	250 U	2500 U	2500 U	250 U	400 U	50.0 U	5 U	50.0 U	50.0 U
Tetrachloroethene	5	**18 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**5.3**	50.0 U	50.0 U
Toluene	1000	**150000 J**	**79000**	**48000**	**39000**	**59000**	**64300**	**45300**	**52000**	**42600**	**34200**
Trichloroethene	5	**8.8 J-**	250 U	2500 U	2500 U	250 U	400 U	50.0 U	**1 J**	50.0 U	50.0 U
Xylenes (Total)	10000	1140 D	539 J	2500 U	2500 U	706 J	800 U	**414**	**531 J**	**604.6**	**541.2**

	Station Location	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**
	EPA Sample ID	E52L0	E52N2	E52S1	E52T1	E52T6	E3XC3	E3XC4	E3XD3	E3XD4	E3XG2	E3XG3
	Sample ID	A11-MW004B-110420	A11-MW004B-110720	A11-MW004B-120112	A11-MW004B-04/03/2012	A11-MW004B-04/03/2012D	A11-MW004B-120919	A11-MW004B-120919-D	A11-MW004B-121204	A11-MW004B-121204-D	A11-MW004B-130314	A11-MW004B-130314-D
	Sample Date	4/20/2011	7/20/2011	1/12/2012	4/3/2012	4/3/2012	9/18/2012	9/18/2012	12/4/2012	12/4/2012	3/14/2013	3/14/2013
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**190 J**	**98**	**74**	**59**	**58**	**64**	**64**	**26**	**38**	**24 D**	**35 D**
1,1,2-Trichloroethane	5	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
1,1-Dichloroethane	1400	**20 J**	**13**	**11**	**9**	**9.1**	**8.2**	**8.5**	**6.7**	**8.3**	**5.9**	**5.9**
1,1-Dichloroethene	7	**6.6 J**	**5.3**	5 U	**3.7 J**	**4.0 J**	5 U	5 U	5 U	5 U	**2.1**	**2.2**
1,4-Dioxane	7.7	400 R	100 R	100 R	100 R	100 R	100 R	100 R	100 U	100 U	NA	NA
Acetone	6300	80 UJ	20 U	10 U	10 U	10 U	**10 U**	10 U	10 U	10 U	5 U	5 U
Benzene	5	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 UJ	5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**7.8 J**	**5.1**	**5.9**	**4.1 J**	**4.0 J**	**4.2 J**	**4.4 J**	**3.3 J**	**3.9 J**	**2.9**	**2.9**
Dichlorodifluoromethane (Freon 12)	1400	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Ethyl Benzene	700	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.15 J**	**0.16 J**
Tetrachloroethene	5	20 UJ	**0.4 J**	5 U	**0.67 J**	**0.55 J**	**0.61 J**	**0.79 J**	5 U	5 U	**0.39 J**	**0.36 J**
Toluene	1000	20 UJ	5 U	5 U	**3.0 J**	**2.8 J**	**0.75 J**	**0.94 J**	5 U	**2.1 J**	0.5 U	0.5 U
trans-1,2-Dichloroethene	100	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.13 J**	**0.13 J**
trans-1,3-Dichloropropene	--	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	0.5 U	0.5 U
Trichloroethene	5	**4 J**	**2.7 J**	**3.4 J**	**3.0 J**	**2.9 J**	**3.5 J**	**3.6 J**	**1.9 J**	**2.4 J**	**1.9**	**1.8**
Trichlorofluoromethane (Freon 11)	2100	20 UJ	5 U	5 U	5.0 U	5.0 U	5 U	5 U	5 U	5 U	**0.21 J**	**0.18 J**
Xylenes (Total)	10000	20 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**0.69 J**	**0.67 J**

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B	A11-MW004B**	A11-MW004B
EPA Sample ID		E3XH2	E3XH3	E3XP3	E3XP4	E3XQ4RE	E3XQ5RE	E3XX2	E3XX3	E3Y02	E3Y03	E3Y48
Sample ID		A11-MW004B-130626	A11-MW004B-130626-D	A11-MW004B-140807	A11-MW004B-140807-D	A11-MW004B-141217RE	A11-MW004B-141217-DRE	A11-MW004B-150520	A11-MW004B-150520-D	A11-MW004B-160406	A11-MW004B-160406-D	A11-MW004B-170310
Sample Date		6/26/2013	6/26/2013	8/7/2014	8/7/2014	12/17/2014	12/17/2014	5/20/2015	5/20/2015	4/6/2016	4/6/2016	3/10/2017
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**25 D**	**27 D**	**14**	**14**	**15 J**	**16**	**14 J-**	**15 J-**	**12**	**11**	**12**
1,1,2-Trichloroethane	5	**0.066 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	1400	**7.1**	**7.6**	**6.3**	**6.2**	**8.7**	**9.4**	**9 J-**	**9.2 J-**	**8.8**	**9.8**	**10**
1,1-Dichloroethene	7	**2.5**	**2.8**	**1.2 J**	**1.2 J**	**2.5**	**2**	**1.6 J-**	**1.6 J-**	0.5 U	0.5 U	**1.8**
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	6300	10 U	10 U	5 U	5 U	10 U	10 U	5 UJ	5 UJ	5 U	5 U	5 U
Benzene	5	**0.086 J**	**0.078 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**3**	**3.2**	**1.8 J**	**1.7 J**	**2.2**	**2.2**	**2.1 J-**	**2.1 J-**	**2**	**2.2**	**2.1**
Dichlorodifluoromethane (Freon 12)	1400	**2.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Ethyl Benzene	700	**0.16 J**	**0.17 J**	**0.2 J**	**0.19 J**	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	**0.64**	**0.67**	**0.49 J**	**0.45 J**	**0.61**	**0.59**	**0.53 J-**	**0.53 J-**	**0.57**	**0.47 J**	**0.55**
Toluene	1000	**0.8**	**0.84**	1 U	1 U	590 U	590 U	**1.4 UJ**	**1.4 UJ**	**8**	**7.9**	**0.1 J**
trans-1,2-Dichloroethene	100	**0.21 J**	**0.21 J**	**0.16 J**	**0.13 J**	**0.24 J**	**0.25 J**	**0.26 J-**	**0.25 J-**	**0.25 J**	**0.22 J**	**0.23 J**
trans-1,3-Dichloropropene	--	**0.18 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
Trichloroethene	5	**2.6**	**2.9**	**2.1**	**2.2**	**2**	**2**	**2.1 J-**	**2.2 J-**	**2.6**	**2.3**	**2**
Trichlorofluoromethane (Freon 11)	2100	**0.36 J**	**0.37 J**	**0.33 J**	**0.33 J**	**0.52 J**	**0.43 J**	**0.53 J-**	**0.51 J-**	**0.38 J**	**0.36 J**	0.5 U
Xylenes (Total)	10000	**1.01 J**	**1.1 J**	**0.31 J**	**0.3 J**	110 U	110 U	0.5 UJ	0.5 UJ	**0.38 J**	**0.14 J**	**0.11 J**

Station Location		A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B	A11-MW004B
EPA Sample ID		E3YA5	E3YF2		A11-MW004B-200303	E3YG3	A11-MW004B-200909	E3YJ0
Sample ID		A11-MW004B-181114	A11-MW004B-190520	A11-MW004B-191112	A11-MW004B-200303	A11-MW004B-200609	A11-MW004B-200909	A11-MW004B-201201
Sample Date		11/15/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**							
1,1,1-Trichloroethane	200	**8.9**	**18**	**6.26**	**5.29 J**	**5.5**	**4.93 J**	**5.61**
1,1,2-Trichloroethane	5	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	**11**	**20**	**6.55**	**5.86**	**6.3**	**5.34**	**5.67**
1,1-Dichloroethene	7	5 U	**3.2**	2.00 U	2.00 U	**0.95**	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	**13.4**	**9.75**	**11.7**	**7.86**	**6.3**
Acetone	6300	**4.5 J**	6.1 U	NA	12.5 UJ	5 U	12.5 U	12.5 U
Benzene	5	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**1.8 J**	**3.8**	2.00 U	2.00 U	**1.3**	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	5 U	0.5 UJ	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Tetrachloroethene	5	5 U	**0.93 J-**	2.00 U	2.00 U	**0.4 J**	2.00 U	2.00 U
Toluene	1000	**1.6 J**	0.5 UJ	2.00 U	2.00 U	**1.6**	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	5 U	**0.52**	2.00 U	2.00 U	**0.16 J**	2.00 U	2.00 U
trans-1,3-Dichloropropene	--	5 U	0.5 U	2.00 U	2.00 UJ	0.5 U	2.00 U	2.00 U
Trichloroethene	5	**1.6 J**	**3.1 J-**	2.00 U	2.00 U	**1.4**	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	2100	5 U	**0.29 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	5 U	**0.77 J**	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
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** = Duplicate sample
D = Diluted sample result
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW005	A11-MW005**	A11-MW005	A11-MW005**	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
EPA Sample ID		E52H3	E52H4	E52L6	E52L7	E52S0	E52T2	E3XC5	E3XD5	E3XG4	E3XH4	E3XP1
Sample ID		A11-MW005-110419	A11-MW005-110419-D	A11-MW005-110720	A11-MW005-110720-D	A11-MW005-120111	A11-MW005-04/02/2012	A11-MW005-120918	A11-MW005-121204	A11-MW005-130313	A11-MW005-130625	A11-MW005-140806
Sample Date		4/19/2011	4/19/2011	7/20/2011	7/20/2011	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/13/2013	6/25/2013	8/6/2014
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	**67**	**69**	**38**	**38**	**15**	**16**	**19**	**12**	**13**	**11**	**3.6**
1,1-Dichloroethane	1400	**15**	**15**	**13**	**13**	**7**	**8.1**	**7.4**	**9.5**	**7.8**	**7.3**	**2.8**
1,1-Dichloroethene	7	5 U	25 U	**3.6 J**	**3.8 J**	5 U	**2.4 J**	5 U	5 U	**1.8**	0.5 U	1 U
1,4-Dioxane	7.7	**21 J**	**17 J**	100 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA
Benzene	5	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.096 J**	0.5 U
Bromodichloromethane	0.2*	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Chloroform	70	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	**6**	**6**	**4.6 J**	**4.7 J**	**3.2 J**	**2.9 J**	**2.6 J**	**3.5 J**	**3.2**	**2.7**	**1.4 J**
Dibromochloromethane	140*	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane (Freon 12)	1400	**2.5 J**	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Ethyl Benzene	700	5 U	5 U	**0.18 J**	**0.23 J**	5 U	**0.80 J**	5 U	5 U	**0.14 J**	**0.18 J**	**0.25 J**
Isopropyl Benzene	700	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	5 U	5 U	**0.4 J**	**0.41 J**	5 U	**0.45 J**	5 U	5 U	**0.29 J**	**0.41 J**	**0.23 J**
Toluene	1000	5 U	5 U	5 U	5 U	5 U	**1.8 J**	**0.66 J**	5 U	0.5 U	**0.82**	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	**0.5 J**	5 U	5 U	5.0 U	5 U	5 U	**0.18 J**	**0.19 J**	0.5 U
Trichloroethene	5	**1.8 J**	**1.7 J**	**1.4 J**	**1.4 J**	5 U	**0.95 J**	**1.2 J**	5 U	**0.97**	**1.3 J**	**0.5**
Trichlorofluoromethane (Freon 11)	2100	5 U	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U
Xylenes (Total)	10000	5 U	5 U	**0.31 J**	**0.49 J**	5 U	**0.42 J**	5 U	5 U	**0.43 J**	0.92 J	**0.35 J**

Station Location		A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005	A11-MW005
EPA Sample ID		E3XQ2	E3XX0	E3Y04	E3YA8	E3YF0		A11-MW005-200303	E3YG1	A11-MW005-200909	E3YH9
Sample ID		A11-MW005-141217	A11-MW005-150519	A11-MW005-160406	A11-MW005-181113	A11-MW005-190520	A11-MW005-191112	A11-MW005-200303	A11-MW005-200609	A11-MW005-200909	A11-MW005-201201
Sample Date		12/17/2014	5/19/2015	4/6/2016	11/13/2018	5/20/2019	11/12/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	**5.4**	**6.1 J-**	**4.4**	**3.5**	**6.4**	**2.46**	**2.92 J**	**4.5**	**5.56 J**	**4.9**
1,1-Dichloroethane	1400	**3.6**	**2.9 J-**	**2.8**	**3.8**	**7.2**	**3.21**	**3.77**	**6.4**	**9.11**	**7.01**
1,1-Dichloroethene	7	**1.3**	**0.88 J-**	0.5 U	0.5 UJ	**1.1**	2.00 U	2.00 U	**1.1**	2.00 UJ	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**7.63**	**5.35**	**8.83**	**8.18 J**	**4.5 J**
Benzene	5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Bromodichloromethane	0.2*	0.5 UJ	0.5 UJ	**0.12 J**	**0.12 J**	**0.33 J**	2.00 U	2.00 U	**0.4 J**	2.00 U	2.00 U
Chloroform	70	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	**0.45 J**	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	**2.1**	**2.1 J-**	**1.9**	**0.85 J-**	**1.6**	2.00 U	2.00 U	**1.3**	2.00 U	2.00 U
Dibromochloromethane	140*	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	**0.18 J**	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	0.5 UJ	0.5 UJ	**0.21 J**	0.5 U	**0.14 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	0.5 UJ	0.5 UJ	0.5 U	0.5 U	**0.14 J+**	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
Tetrachloroethene	5	**0.33 J**	0.5 UJ	**0.22 J**	**0.38 J**	**0.86**	2.00 U	2.00 U	**0.39 J**	2.00 UJ	2.00 U
Toluene	1000	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
trans-1,2-Dichloroethene	100	0.5 U	**0.11 J-**	0.5 U	0.5 UJ	**0.3 J**	2.00 U	2.00 U	**0.15 J**	2.00 UJ	2.00 U
Trichloroethene	5	**1.2 J**	**1.7 J-**	**1.2**	**1.4**	**2.1**	2.00 U	2.00 U	**0.89**	2.00 UJ	2.00 U
Trichlorofluoromethane (Freon 11)	2100	0.5 U	0.5 UJ	0.5 U	0.5 U	**0.31 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Xylenes (Total)	10000	110 UJ	0.5 UJ	**1.27 J**	0.5 U	1.19 J	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Notes:
All results in micrograms per liter
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Shaded results exceed remediation goal
** = Duplicate sample
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Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW006	A11-MW006	A11-MW006	A11-MW006**	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
	EPA Sample ID	E52L1	E52N3	E52R8	E52R9	E52T3	E3XC6	E3XD6	E3XG5	E3XH5RE	E3XP0	E3XQ1
	Sample ID	A11-MW006-110420	A11-MW006-110720	A11-MW006-120111	A11-MW006-120111-D	A11-MW006-04/02/2012	A11-MW006-120918	A11-MW006-121204	A11-MW006-130313	A11-MW006-130625RE	A11-MW006-140806	A11-MW006-141217
	Sample Date	4/20/2011	7/20/2011	1/11/2012	1/11/2012	4/2/2012	9/18/2012	12/4/2012	3/13/2013	6/25/2013	8/6/2014	12/17/2014
Analyte Name	**RG**											
1,1,1-Trichloroethane	200	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,1-Dichloroethane	1400	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	**0.17 J**	**0.11 J**	0.5 U	**0.12 J**
1,1-Dichloroethene	7	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
1,2-Dichloropropane	5	5 U	**0.73 J**	5 U	5 U	5.0 U	5 U	5 U	**1.2**	**0.62**	0.5 U	0.5 UJ
1,4-Dioxane	7.7	100 R	100 R	100 R	100 R	100 R	100 R	100 U	NA	NA	NA	NA
Benzene	5	**3.3 J**	**2.9 J**	5 U	5 U	**3.1 J**	5 U	5 U	**4.3**	**0.4 J**	**0.58**	**1.2 J**
Bromochloromethane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Bromodichloromethane	0.2*	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Chloroethane	--	**3.8 J**	5 U	5 U	5 U	**1.2 J**	**0.93 J**	5 U	**4.7**	**0.3 J**	0.5 U	0.5 UJ
Chloroform	70	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
cis-1,2-Dichloroethene	70	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	**0.1 J**
Cyclohexane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	**1**	**1.2 J**
Dibromochloromethane	140*	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Dichlorodifluoromethane (Freon 12)	1400	**2 J**	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	**0.088 J**	0.5 U	0.5 UJ
Ethyl Benzene	700	5 U	**0.21 J**	5 U	5 U	5.0 U	5 U	5 U	**0.21 J**	**0.21 J**	**0.36 J**	0.5 UJ
Isopropyl Benzene	700	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	**6.3**	**3.7 J**
Methylcylohexane	--	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 U	0.5 U	**0.32 J**	0.5 UJ
Tetrachloroethene	5	**1.2 J**	5 U	5 U	5 U	**0.63 J**	**1.4 J**	5 U	**0.46 J**	**1**	**0.38 J**	**0.53 J**
Toluene	1000	5 U	5 U	5 U	5 U	5.0 U	**0.89 J**	5 U	0.5 UJ	**0.9**	1 U	0.5 UJ
trans-1,2-Dichloroethene	100	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Trichloroethene	5	5 U	5 U	5 U	5 U	5.0 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Xylenes (Total)	10000	**1.3 J**	**0.71 J**	5 U	5 U	5.0 U	5 U	5 U	**0.8 J**	**1.23 J**	**1.66 J**	110 UJ

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

Station Location		A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006	A11-MW006
EPA Sample ID		E3XW9	E3Y05	E3Y47	E3YA9	E3YE9		A11-MW006-200303	E3YG0	A11-MW006-200909	E3YH8
Sample ID		A11-MW006-150519	A11-MW006-160406	A11-MW006-170309	A11-MW006-181113	A11-MW006-190520	A11-MW006-191113	A11-MW006-200303	A11-MW006-200609	A11-MW006-200909	A11-MW006-201201
Sample Date		5/19/2015	4/6/2016	3/9/2017	11/13/2018	5/20/2019	11/13/2019	3/3/2020	6/9/2020	9/9/2020	12/1/2020
Analyte Name	**RG**										
1,1,1-Trichloroethane	200	0.5 UJ	**0.23 J**	**0.38 J**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,1-Dichloroethane	1400	0.5 UJ	**0.72**	**1.8**	**0.2 J**	**0.75**	2.00 U	2.00 U	**0.11 J**	2.00 U	2.00 U
1,1-Dichloroethene	7	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
1,2-Dichloropropane	5	0.5 UJ	0.5 U	0.5 U	0.5 U	**3.1**	**2.57**	2.00 U	0.5 U	2.00 U	2.00 U
1,4-Dioxane	7.7	NA	NA	NA	NA	NA	**1.02**	**1.54**	**7.53**	**8.42**	**4.1**
Benzene	5	0.5 UJ	0.5 U	0.5 U	**2.5**	**8.8**	**3.12**	**2.62**	**2**	**2.28**	**2.82**
Bromochloromethane	--	0.5 UJ	**0.21 J**	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Bromodichloromethane	0.2*	0.5 UJ	**0.39 J**	**0.75**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Chloroethane	--	0.5 UJ	0.5 U	0.5 U	**2.3**	**1.4**	2.00 U	2.00 U	**0.44 J**	2.00 U	2.00 U
Chloroform	70	0.5 UJ	0.5 U	**0.6**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
cis-1,2-Dichloroethene	70	0.5 UJ	**0.47 J-**	**0.31 J**	0.5 UJ	0.74 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Cyclohexane	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	NA	NA	**0.35 J**	NA	NA
Dibromochloromethane	140*	0.5 UJ	**0.45 J**	**0.51**	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	1400	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Ethyl Benzene	700	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Isopropyl Benzene	700	**1.6 J-**	0.5 U	0.5 U	**22**	**37 J+**	2.00 U	2.00 U	**0.14 J**	2.00 U	2.00 U
Methylcylohexane	--	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.71**	NA	NA	0.5 U	NA	NA
Tetrachloroethene	5	**0.54 J-**	**0.41 J**	**0.82**	**0.15 J**	**0.17 J**	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Toluene	1000	**1.4 UJ**	0.5 U	0.5 U	0.5 U	0.5 U	2.00 U	2.00 U	0.5 U	2.00 UJ	2.00 U
trans-1,2-Dichloroethene	100	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.00 U	2.00 U	0.5 U	2.00 U	2.00 U
Trichloroethene	5	0.5 UJ	**0.41 J**	**0.28 J**	0.5 U	0.5 U	2.00 U	2.00 U	**0.14 J**	2.00 U	2.00 U
Xylenes (Total)	10000	0.5 UJ	**0.13 J**	0.5 U	0.5 U	**0.24 J+**	4.00 U	4.00 U	0.5 U	4.00 U	4.00 U

Station Location		A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007	A11-MW007**	A11-MW007
EPA Sample ID		E3YB0	E3YB1	E3YF5	E3YF6			A11-MW007-200304	A11-MW007-200304-D	E3YG6	E3YG7	A11-MW007-200910
Sample ID		A11-MW007-181114	A11-MW007-181114-D	A11-MW007-190521	A11-MW007-190521-D	A11-MW007-191113	A11-MW007-191113-D	A11-MW007-200304	A11-MW007-200304-D	A11-MW007-200610	A11-MW007-200610-D	A11-MW007-200910
Sample Date		11/14/2018	11/14/2018	5/21/2019	5/21/2019	11/13/2019	11/13/2019	3/4/2020	3/4/2020	6/10/2020	6/10/2020	9/10/2020
Analyte Name	**RG**											
1,1-Dichloroethane	1400	250 U	250 U	**20 J**	**21 J**	10.0 U	10.0 U	4.00 U	4.00 U	5 U	5 U	10.0 U
1,2,4-Trimethylbenzene	--	NA	NA	NA	NA	**31.7**	**32.1**	**22.6**	**21**	NA	NA	**53.5**
1,3,5-Trimethylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	**4.84**	**4.57**	NA	NA	**11.1**
1,4-Dioxane	7.7	NA	NA	NA	NA	**0.278**	**0.293**	**3.38**	**3.3**	0.205 U	0.205 U	0.212 U
Benzene	5	250 U	250 U	130 U	130 U	10.0 U	10.0 U	4.00 U	4.00 U	5 U	5 U	10.0 U
Ethyl Benzene	700	**6500**	**6700**	**2500**	**2600**	**1420**	**1420**	**959**	**863**	**820**	**810**	**2630**
Isopropyl Benzene	700	**99 J**	**110 J**	**91 J**	**92 J**	**28.3**	**28.8**	**12**	**11**	**6.5**	**6.5**	**86.1**
Methylcylohexane	--	250 U	**89 J**	**100 J**	**99 J**	NA	NA	NA	NA	**2.7 J**	**2.6 J**	NA
Naphthalene	140	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**11.4**
n-Butylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**11.3**
n-Propylbenzene	--	NA	NA	NA	NA	**19.5**	**19.6**	**6.68**	**6.03**	NA	NA	**82.4**
sec-Butylbenzene	--	NA	NA	NA	NA	10.0 U	10.0 U	4.00 U	4.00 U	NA	NA	**10.8**
Tetrachloroethene	5	250 U	250 U	130 U	130 U	10.0 U	10.0 U	4.00 U	4.00 U	**1 J**	**0.89 J**	10.0 U
Toluene	1000	**200 J**	**230 J**	**12 J**	**10 J**	10.0 U	10.0 U	4.00 U	4.00 U	5 UJ	5 UJ	10.0 U
Xylenes (Total)	10000	**13000**	**13000**	**4500**	**4500**	**4190**	**4210**	**3050**	**2800**	**2600**	**2600**	**7600**

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Table 6
Comprehensive VOC Compounds Detected 2011-2020
Source Area 11 2020 Groundwater Report
Southeast Rockford Groundwater Contamination Superfund Site

	Station Location	A11-MW007**	A11-MW007	A11-MW007**
	EPA Sample ID	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample ID	A11-MW007-200910-D	A11-MW007-201201	A11-MW007-201201-D
	Sample Date	9/10/2020	12/2/2020	12/2/2020
Analyte Name	**RG**			
1,1-Dichloroethane	1400	10.0 U	10.0 U	10.0 U
1,2,4-Trimethylbenzene	--	**55.7**	**131**	**169**
1,3,5-Trimethylbenzene	--	**11.6**	**14.4 J**	**56.7 J**
1,4-Dioxane	7.7	0.203 U	**0.069 J**	0.19 U
Benzene	5	10.0 U	10.0 UJ	**44.3 J**
Ethyl Benzene	700	**2680**	**3300**	**3660**
Isopropyl Benzene	700	**89.1**	**109 J**	**486 J**
Methylcylohexane	--	NA	NA	NA
Naphthalene	140	**13.2**	**34.0 J**	**97.3 J**
n-Butylbenzene	--	**12.4**	**19.9 J**	**66.9 J**
n-Propylbenzene	--	**84.7**	**104 J**	**454 J**
sec-Butylbenzene	--	**11.3**	**17.5 J**	**68.4 J**
Tetrachloroethene	5	10.0 U	10.0 U	10.0 U
Toluene	1000	10.0 U	10.0 U	10.0 U
Xylenes (Total)	10000	**7920**	**7390**	**8100**

	Station Location	A11-MW130A	A11-MW130A
	EPA Sample ID	A11-MW130A-200909	E3YH7
	Sample ID	A11-MW130A-200909	A11-MW130A-201201
	Sample Date	9/9/2020	12/1/2020
Analyte Name	**RG**		
1,1,1-Trichloroethane	200	**3.51 J**	**3.51**
1,1-Dichloroethane	1400	**4.11**	**3.77**
1,4-Dioxane	7.7	**6.1**	**4**
Total Xylenes	10000	4.00 U	4.00 U

Notes:
All results in micrograms per liter
Remediation goals from Record of Decision or Class I Groundwater Standard from 35 IAC 620.410
Shaded results exceed remediation goal
** = Duplicate sample
D = Diluted sample result
U = Not detected at value shown
J = Estimated result J- = Estimated result biased low J+ = Estimated result biased high
R = Rejected

Appendix A

Source Area 11 Conceptual Site Model Southeast Rockford Groundwater Contamination Superfund Site

Physical Setting with Respect to Contaminant Migration

Source Area 11 (Area 11) is located on the northeast corner of 11th Street and Harrison Avenue in Rockford, IL. Area 11 is one of four known and identified source areas that are largely responsible for the Southeast Rockford Groundwater Contamination (SERGC) site as shown in **Figure 1**, which was modified from the 1995 Final Remedial Investigation Report (CDM Smith Inc. [CDM Smith] 1995).

Source Area 4 (Area 4) is 0.25 mile hydrogeologically upgradient to the east-southeast of Area 11. Area 4 had chlorinated volatile organic compound (VOC) contamination (primarily 1,1,1-trichloroethane [TCA]) contamination prior to completion of its remedial action. Source Area 7 (Area 7) is further upgradient to the east-southeast about 1.75 miles from Area 11. Area 7 has a wide range of contamination that primarily consists of chlorinated VOCs. The south end of Source Area 9/10 (Area 9/10) is immediately west of Area 11 on the opposite side of 11th Street with the north end of Area 9/10 located 0.1 mile north. Contamination associated with Area 9/10 is chlorinated VOCs located in the northern half of the Area 9/10 that does not impact Area 11. Conversely, contamination from Area 11 cuts across the southern portion of Area 9/10. Groundwater samples collected 0.25 mile south (i.e., side-gradient) and immediately upgradient document background contamination in groundwater that is not attributable to Area 11.

Area 11 was previously developed with buildings, structures, and asphalt. The City of Rockford purchased the southern portion Area 11 for use as a lay-down area for a nearby road construction project and removed all asphalt surfaces, above ground structures, and some shallow subsurface structures in 2016. Following completion of the road construction project, the southern portion of Area 11 was graded, seeded, and turned into greenspace.

The geologic stratigraphy at Area 11 is fine- to medium-grained sand down to about 30 feet below ground surface (bgs), followed by medium- to coarse-grained sand with gravel down to about 75 feet bgs. Below this is a silt and clay layer believed to be around 10 to 15 feet thick, based on the presence of what appears to be the same unit observed at a similar elevation (656 feet above mean sea level [msl]) in MW114B, located 0.25 mile south of Area 11; however, the silt and clay unit is not present down to 640 feet msl in MW126B, located 0.4 mile west-southwest of Area 11. A cross-section of Area 11 is shown in **Figure 2**.

Groundwater in the unconsolidated material at Area 11 enters the eastern edge of the site flowing in a northwesterly direction before eventually turning west, and then west-southwest as it exits the site's western boundary. Further downgradient, groundwater flow is directly to the

southwest and the Rock River. This gradual shift in groundwater flow from the northwest to the southwest in the vicinity of Area 11 is responsible for the "banana" shape of the historic SERGC groundwater contaminant plume seen in **Figure 1**. The nearest surface water body is Buckbee Creek located about 0.25 mile directly south. The length of Buckbee Creek near Area 11 is a concrete-lined surface water drainage ditch in poor condition that only contains water after precipitation events.

Sources

One of the companies that previously operated at Area 11 was Rockford Varnish which manufactured varnish and related products for the furniture industry from 1906 to 1983 (U.S. Environmental Protection Agency [U.S. EPA] 2002). The overall primary contaminant source at Area 11 is eight former aboveground storage tanks (AST) and ancillary systems (i.e., piping) that were located east of the former Rockford Varnish facility. **Figure 3** shows the approximate locations of the former ASTs and buildings with superimposed locations of the existing onsite monitoring wells. The ASTs were removed sometime between July 2003 and April 2005 based on Google Earth Pro historical imagery. The OU2 RI report mentions other potential sources including a "bunker" used by Rockford Varnish that seeped a tar-like substance and a dumpster used by Rockwell Graphics that leaked cutting oils (U.S. EPA 2002).

The former ASTs contained various solvent products used by Rockford Varnish, but the specific chemicals stored in individual tanks is not known. Based on the VOCs found at Area 11, it is assumed they contained solvents including toluene, ethylbenzene, xylenes, and methylcyclohexane. Area 11 was determined to be a significant source of non-chlorinated VOCs in SERGC groundwater, with the highest and most extensive concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) compounds found in groundwater (U.S. EPA 2002).

At this point it is important to consider what exactly constitutes "a source" at Area 11. The ASTs can be collectively considered a source, but multiple leaks from different pipes releasing different substances would result in multiple individual sources in proximity that eventually become comingled.

The highest concentration of any VOC ever detected in groundwater at Area 11 was toluene at 520,000 micrograms per liter (µg/L) in direct-push groundwater sample A11-GW-5, collected on January 15, 2008, from 38 to 42 feet bgs at a location a couple feet west of MW004A (screened interval of 30 to 40 feet bgs) during the first round of predesign field activities (CDM Smith 2009). Reference values for the solubility limit of toluene vary and the solubility limit itself varies with temperature, but in general 520,000 µg/L is at or very close to the solubility limit of toluene and strongly indicates non-aqueous phase liquid (NAPL) source material. In addition, during the same investigation a membrane interface probe (MIP-6) advanced in the same general location had the shallowest maximum detector response and among the highest detector responses overall indicating that this location is most likely closest to the source. Finally, although the contamination encountered at MIP-6 is the shallowest onsite, this zone of high concentration contamination does not exist as an LNAPL at the water table, but in a narrow, 8- to 10-foot-wide band that starts sharply several feet below the water table and increases in depth with distance from MIP-6. The 2009 pre-design technical memorandum contains a detailed description of groundwater contamination at Area 11 (CDM Smith 2009).

The Source Control Operable Unit (SCOU, also referred to as OU3) Remedial Investigation (RI) Report states that chlorinated solvents were used by Rockford Varnish and that they were stored in the ASTs, but the SCOU also states that levels of chlorinated VOCs in this area are likely from lateral migration of soil gas and volatilization from groundwater, and that the ASTs were not suspected of being the source of tetrachloroethene (PCE) that was found in the subsurface (CDM Smith 2000). Historically, detections of chlorinated solvents in Area 11 groundwater have been sporadic and at concentrations three orders of magnitude below concentrations of ethylbenzene, toluene, and xylenes (ETX). However, sample dilutions required to quantify the high concentrations of ETX compounds increase detection limits for other compounds to the point that chlorinated VOCs may be present at concentrations greater than applicable groundwater standards. Despite that, Area 11 groundwater samples are occasionally analyzed without dilution and concomitant elevated detection limits and the concentrations of chlorinated VOCs in those sample results are not elevated compared to background samples.

Conversely, no indication of source material has ever been found in subsurface soil samples collected from the vadose zone (CDM Smith 1995, 2000, 2009, and 2013). Because most of the material released to the environment may have been released as chemical product, it is possible that the product has evaporated or degraded to the point that only trace amounts remain in the vadose zone. In any case, any remaining vadose zone source material probably lies directly below the former AST concrete foundations that are still in place. Based on CDM Smith's experience at Area 4, which has the same geology as Area 11, contamination migrates almost vertically straight down with little lateral migration. Assuming the contaminant releases at Area 11 were discreet, point source releases (e.g., from a leaking pipe) and not wide-area releases, the footprint of potential source material at the water table could be no more than a couple feet in diameter.

Migration Pathways and Fate

As of 2022, almost 40 years have passed since Rockford Varnish ceased operation following 77 years of operation. Contaminants, assumed to be product, released to the environment migrated downward under the force of gravity as NAPL or in solution with infiltrated precipitation, although ground surface barriers to precipitation probably limited this process. Once in the subsurface, the contaminants sorbed to soil, volatilized into the vadose zone, and continued downward as NAPL until groundwater was encountered. From there, multiple mechanisms drove contaminant migration within Area 11 and offsite including the contaminant's chemistry, geology, hydrogeology, and ground surface conditions.

In the vapor phase, VOCs can migrate in the unsaturated zone through both advective air currents and vapor phase diffusion. Diffusion in the vapor phase is up to four orders of magnitude faster than diffusion in the aqueous phase and is therefore a material process for migration. Vapor that has migrated from the source areas can then sorb to soils at some distance away from original release locations, leading to detectable contamination in soil as was observed with chlorinated VOCs during the SCOU RI (CDM Smith 2000). The goal of installing an SVE system is to capture these vapors from the soil.

Migration of dissolved phase contaminants in groundwater is driven naturally by advection. Contaminant migration through the sand and gravel is heterogeneous because of the varied distribution of the zones creates localized and varying intervals of moderate to higher

permeability (fine- to medium-grained sand and sand and gravel). Contaminant migration is preferentially through the more permeable zones. In the aggregate, sufficient permeability is present in the aquifer for contamination to migrate out of Area 11 immediately downgradient as observed in MW007 at the GMZ boundary. However, contaminant concentrations in MW007 are much lower than in MW002 despite the two wells being only 113 feet from each other, and further downgradient ETX contaminants known to be associated with Area 11 decrease to low single-digit concentrations in MW005 and MW006. This rapid decrease in concentrations with distance from Area 11 has been observed since the wells were first sampled, but the exact nature of the processes responsible for the attenuation have not been documented.

Lastly, ground surface conditions at Area 11 changed in 2016 when asphalt and other materials were removed from the area resulting in new greenspace. The asphalt and other materials served as barriers to limit rainwater infiltration and VOC diffusion from the subsurface into the atmosphere. Once these barriers were removed, these processes could resume a natural cycle increasing the environment's attenuation capacity. Additionally, as the area becomes more aerobic, this can feed microorganisms that may potentially be present that can favor and contribute to plume reduction. Additional study is required to determine the nature of these attenuation processes.

Receptors

The following bullets summarize the receptors for the site:

- Ecological Receptors
  - The potential exists for ecological receptors in/around the shrubbery/trees located within Area 11 boundary, though no conclusive determination has been made thus far to evaluate the site-related risk to receptors.
- Human Receptors
  - No data collected thus far has indicated that surficial contamination is still present. However, given the inability to sample directly below the former ASTs, the presence of surficial contamination cannot be ruled out.
  - There is one building (Accurate Metals Illinois) onsite where vapors could diffuse from the subsurface to accumulate and impact human health.
  - Human health impacts from groundwater use are not anticipated at or downgradient of Area 11 because there are no users of private groundwater wells.

References

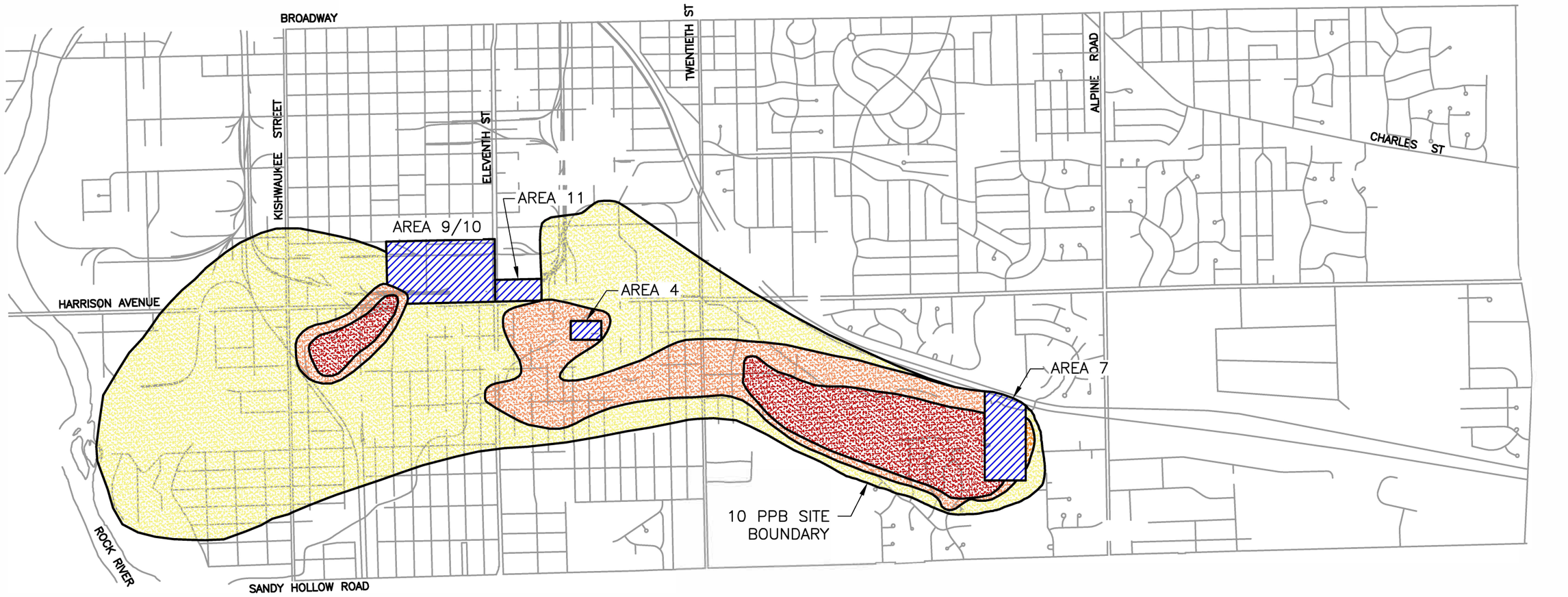
CDM Smith. 1995. "Southeast Rockford, Final RI Report" January.

CDM Smith. 2000. "Final "Final Remedial Investigation Report for the Southeast Rockford Source Control Operable Unit. July 25.

CDM Smith, 2009. Area 11 Pre-Design Technical Memorandum
Southeast Rockford Groundwater Contamination Superfund Site. January 22.

CDM Smith. 2013. Area 11 Phase II Pre-Design Technical Memorandum, Southeast Rockford Groundwater Contamination Superfund Site. September 2013.

United States Environmental Protection Agency (U. S. EPA), 2002. Record of Decision, Southwest Rockford Ground Water Contamination Site, Operable Unit 3. EPA/ROD/R05-02/077.



AREA OF CONCERN

TOTAL CHLORINATED VOCs > 10 ppb

TOTAL CHLORINATED VOCs > 100 ppb

TOTAL CHLORINATED VOCs > 1,000 ppb

N

1" = 2000'

1000 0 2000

PLOT DATE: 10/27/2017 11:06 AM PLOTTED BY: SCHAMBER, ANDREW R. DWG LOCATION: C:\Users\schamberar\Desktop\FIGURE_1-1.dwg

CDM Smith
125 South Wacker Drive, Suite 700
Chicago, Illinois 60606
Tel: (312) 346-5000

Figure 1
Southeast Rockford Groundwater Contamination Superfund Site
Rockford, IL

Southwest **A** — **A'** **Northeast**

1,400 1,200 1,000 800 600 400 200 0 -200 -400

Elevation (feet above mean sea level)

750 740 730 720 710 700 690 680 670 660 650 640

A11-MW-6 A11-MW-5 Proposed GMZ Compliance Well A11-MW-7 A11-MW-3 A11-MW-2 A11-MW-4B A11-MW-4A A11-MW-1

Source Contaminant Migration Downwards

Contaminant Background Well

Lateral Contaminant Volatilization in Aerobic Conditions

Contaminant Migration by Advective Air Currents/ Vapor Phase Diffusion

Dissolution of NAPL in groundwater

ROD calls for natural attenuation outside of GMZ

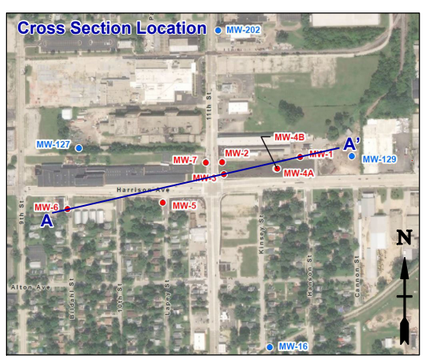
Proposed GMZ Boundary

Groundwater Flow Direction to the Southwest

Silt/clay extends east to MW130B (at 674 feet msl) and south to MW114B (at 656 feet mls); extent to west not known

Distance Along Baseline (feet)

LEGEND:



Stratigraphic Legend
- Topsoil
- Gravel
- Sand
- Silt
- Clay

- Vapor Phase Contaminant Migration
- Aqueous and Non-Aqueous Phase Contaminant Migration
- Possible NAPL
- High concentration contaminant zone (based on MIP data)

NAPL - non-aqueous phase liquid
GMZ - groundwater management zone
MIP - membrane interface probe
msl - mean sea level
ROD - record of decision
VOC - volatile organic compound

- GMZ boundary
- Approximate potentiometric surface
- Groundwater Flow
- Historical Contaminant Release (Aboveground Storage Tank) NOT TO SCALE
- Casing
- Screened Interval

0 133 Horizontal Scale (feet)

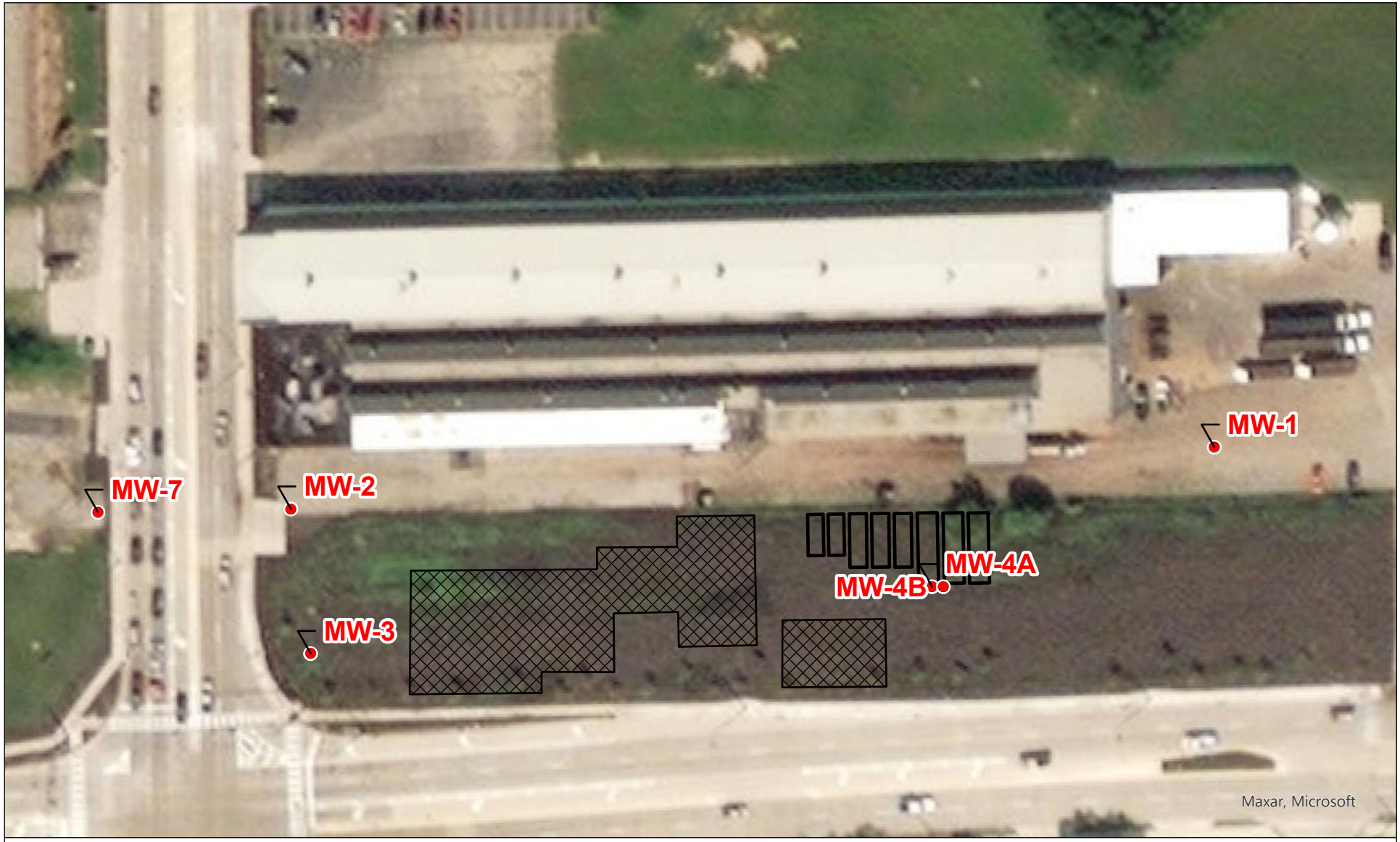
Vertical Scale (feet) 0 18

Vertical Exaggeration: 7x

CDM Smith

Figure 2
Area 11 Cross Section A-A'
Southeast Rockford Groundwater Contamination Site
Rockford, Illinois

STANDARD CROSS SECTION: CIDRA REPORT SERGW_AREA11.GPJ STANDARD_ENVIRONMENTAL_PROJECT.GDT 3/1/22 REV.



Former Above Ground Storage Tank

Former Building

Service Layer Credits:
- Aerial Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community.
- Road Centerline Source: Census TIGER/Line Roads, 2020.

N

0 50 100 Feet

CDM Smith

Figure 3 - Area 11 Historic Features
Southeast Rockford Groundwater Contamination Superfund Site

Appendix B
Groundwater Sampling Sheets

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March 2020 Groundwater Sampling Sheets

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.11 Hach DR900

Date: 3/23/21 Well #: MW-130A Pump Type: Submersible Meganansoon XL

Arrival Time: 0800 Depth to Water (from master list): 21.52

Weather: 51°f, cloudy Samplers (full name): John Grabs + Catherine Cox

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0825	22.03	500		6.92	1.28	125	8.27	11.83	<1.0
0830	21.95	450		6.96	1.29	107	6.49	11.80	53.0
0835	21.99	450		7.01	1.29	81.9	5.46	11.86	58
0840	21.94	475		7.03	1.30	66.3	5.14	11.94	61
0845	22.00	500		7.03	1.30	53.3	4.67	11.94	64
0850	22.03	475		7.06	1.30	39.9	4.26	12.02	67
0855	22.03	475		7.09	1.30	30.7	3.93	12.10	66
0900	22.04	450		7.08	1.31	24.0	3.72	12.04	63
0905	22.03	450		7.11	1.29	19.0	3.70	12.01	62
0910	22.02	450		7.11	1.29	16.1	3.71	11.88	61

Sample Time 0910 QC Sample Type none Departure Time 0930

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.05 Hach DR900

Date: 03/23/21 Well #: 001 Pump Type: Submersible Mega Monsoon XL

Arrival Time: 1415 Depth to Water (from master list): ~~28~~ 29.20

Weather: 50s, cloudy, light rain Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1425	29.18	500		7.43	1.27	374	9.69	13.19	125
1430	29.17	500		7.41	1.27	236	11.29	13.17	122
1435	29.17	480		7.39	1.26	101	11.63	13.06	123
1440	29.17	500		7.39	1.26	68.5	11.70	13.08	122
1445	29.17	500		7.37	1.25	35.4	11.20	13.09	123
1450	29.16	500		7.36	1.25	28.2	11.03	13.10	125
1455	29.17	500		7.35	1.25	16.3	11.29	13.03	126
1500	29.17	500		7.36	1.25	9.7	10.93	12.95	126
1505	29.17	500		7.35	1.25	5.0 YAY!	10.81	12.95	127

Sample Time 1505 QC Sample Type ✓ Departure Time 1522

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 2.51 Dilute = 10.04 Hach DR900

Date: 03/24/21 Well #: MW-02 Pump Type: Submersible Mega Monsoon XL

Arrival Time: 1350 Depth to Water (from master list): 26.57

Weather: light rain, 50s Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1400	26.59	500		~~6.09~~ ~~13.04~~	1.41	78.5	1.47	13.04	-59
1405	26.59	450		6.14	1.41	90.1	1.38	13.26	-69
1410	26.60	450		6.46	1.40	47.9	1.92	13.33	-93
1415	26.60	450		6.45	1.40	26.0	1.84	13.54	-96
1420	26.60	450		6.43	1.39	20.1	1.94	13.59	-97
1425	26.61	~~450~~ 500		6.40	1.39	24.1	2.08	13.58	-97
1430	26.61	500		6.37	1.39	23.3	1.89	13.63	-99

Sample Time 1430 QC Sample Type None Departure Time 1450

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 2.71 Dilution 2X = 5.42 Hach DR900

Date: 03/24/21 Well #: 003 Pump Type: Submersible Mega Monsoon XL

Arrival Time: 0900 Depth to Water (from master list): 26.89

Weather: overcast 50s Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0917	26.88	500		~~12.17~~ 6.30	1.29	5.5	1.36	12.17	-116
0922	26.88	500		6.44	1.29	0.0	1.02	12.09	-127
0927	26.88	500		6.50	1.29	0.0	0.90	12.11	-131
0932	26.88	500		6.54	1.29	0.0	0.76	12.11	-134
0937	26.88	500		6.54	1.29	0.0	0.69	12.14	-135
0942	26.88	500		6.50	1.29	0.0	0.68	12.19	-131

Sample Time 0942 QC Sample Type MS MSD VOAs only Departure Time 1000

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 2.42 Hach DR900

Date: 03/24/21 Well #: 4A Pump Type: Submersible Mega Monsoon XL

Arrival Time: 1510 Depth to Water (from master list): 28.39

Weather: overcast, 60s Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1530	28.38	500		6.47	1.28	10.5	0.40	13.16	-210
1535	28.36	350		6.74	1.27	4.5	0.41	13.15	-219
1540	28.36	500		6.55	1.27	1.27	0.36	13.19	-201
1545	28.36	500		6.77	1.26	1.26	0.35	13.16	-214

Sample Time 1545 QC Sample Type None Departure Time 1605

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.18 Hach DR900

Date: 03/23/21 Well #: 4B Pump Type: Submersible MegaMonsoon XL

Arrival Time: 1600 Depth to Water (from master list): 27.93

Weather: 58, light to moderate rain Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1615	27.99	500		7.42	1.17	685	2.94	12.14	18
1620	27.99	500		7.44	1.16	219	2.41	12.12	37
1625	27.99	500		7.41	1.21	83.3	2.07	12.16	47
1630	27.99	450		7.41	1.24	65.0	2.00	12.07	46
1635	27.99	450		7.39	1.29	31.5	2.24	12.07	50
1640	27.99	450		7.44	1.31	35.1	2.15	12.25	42
1645	27.99	450		7.51	1.32	25.4	2.00	12.23	34
1650	27.99	450		7.47	1.33	12.5	2.06	12.17	43
1655	27.99	450		7.46	1.34	14.3	2.00	12.16	48
1700	27.99	450		7.44	1.34	14.5	6.07	12.37	53
1705	27.99	450		7.42	1.33	13.6	5.72	12.42	51

* random DO blip flicked flowthru cell to equilibrate

Sample Time 1705 QC Sample Type None Departure Time 1733

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.0 Hach DR900

Date: 03/23/21 Well #: 005 Pump Type: Submersible Mega Monsoon XL

Arrival Time: 1200 Depth to Water (from master list): 27.41

Weather: 50s, cloudy, light rain Samplers (full name): C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1212	27.39	475		7.23	1.32	240	18.45	13.28	93
~~1215~~ 1217	27.39	500		7.27	1.36	146	9.80	13.56	94
1222	27.39	500		7.28	1.39	90.2	8.54	13.58	96
1227	27.39	485		7.27	1.39	88.1	7.71	13.65	99
1232	27.39	500		7.27	1.39	72.6	7.63	13.62	102
1237	27.39	500		7.25	1.40	41.4	7.40	13.60	105
1242	27.39	500		7.26	1.41	32.0	7.25	13.63	106
1247	27.39	500		7.27	1.41	21.4	7.21	13.69	107
~~1252~~ 1252	27.39	500		7.28	1.41	16.9	7.44	13.70	107
1257	27.39	500		7.30	1.42	10.4	7.41	13.71	108
1302	27.39	500		7.30	1.42	4.8	7.39	13.68	111

Sample Time 1302 QC Sample Type MS MSD Departure Time 1330

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 4.18 (diluted 2x) Hach DR900

Date: 03/23/21 Well #: 006 Pump Type: Submersible Mega Monsoon XL

Arrival Time: 1030 Depth to Water (from master list): 27.48

Weather: 51, cloudy, light rain Samplers (full name): C. Cox . J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1040	27.47	500		7.10	1.45	19.6	7.58	13.13	-97
1045	27.47	475		7.13	1.47	22.0	4.17	13.32	-103
1050	27.47	500		7.15	1.48	23.1	2.23 ~~2.3~~	13.48	-113
1055	27.47	475		7.18	1.48	22.6	1.45	13.66	-118
1100	27.47	475		7.19	1.48	23.5	1.48	13.72	-122

Sample Time 1100 QC Sample Type none Departure Time 1120

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

3.18 Dilution 2x = 6.36

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING Fe2 Hach DR900

Date: 03/24/21 **Well #:** 007 **Pump Type:** Submersible Mega Monsoon XL

Arrival Time: 1045 **Depth to Water (from master list):** 26.41

Weather: Overcast 50s **Samplers (full name):** C. Cox, J. Grabs

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1057	26.38	500		6.23	1.45	102	7.18	13.14	-80
1102	26.38	500		6.09	1.44	47.0	12.12	13.62	-89
1107	26.38	500		6.02	1.44	23.2	13.43	13.75	-95
1112	26.38	475		6.13	1.43	13.6	17.38	13.72	-106
1117	26.38	475		6.23	1.44	3.8	11.24	13.73	-116
~~1122~~ 1122	26.38	500		6.29	1.43	4.0	10.21	13.80	-121

Sample Time 1122 **QC Sample Type** Duplicate Sample MW 701 **Departure Time** 1135

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

June 2020 Groundwater Sampling Sheets

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.057 mg/L

Date: 6/8/2021 **Well #:** 130 **Pump Type:** submersible

Arrival Time: 0703 **Depth to Water (from master list):** 22.07

Weather: Partly Cloudy **Samplers (full name):** Matt Garbarino, Chris Albrecht, Caleb Kuhn

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0720	22.09	250	0.02	4.90	1.53	244	14.57	14.66	75
0725	|	|	|	5.09	1.51	282	3.65	14.82	2
0730	|	|	|	5.21	1.52	210	2.85	15.36	-3
0735	|	|	|	5.27	1.59	145	14.32	13.47	-8
0740	|	|	|	5.27	1.60	98.0	13.29	13.39	-7
0745	|	|	|	5.36	1.61	78.8	12.33	13.48	-12
0750	|	|	|	5.39	1.60	61.7	11.29	14.07	21
0755	|	|	|	5.42	1.59	56.1	10.50	14.73	21
0800	|	|	|	5.40	1.60	55.2	10.56	13.83	22
0805	|	|	SAMPLES COLLECTED						

Sample Time 0805 **QC Sample Type** N/A **Departure Time** 0827

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.021 mg/L

Date: 6/8/2021 Well #: MW-001 Pump Type: Submersible

Arrival Time: 13:38 Depth to Water (from master list): 29.55

Weather: Partly cloudy, 88°F Samplers (full name): Matt Garbarino

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
13:55	29.49	200	-0.06	5.88	1.57	363	7.83	17.68	86
14:00				5.82	1.55	256	6.22	16.84	84
14:05				5.75	1.53	172	5.62	17.63	81
14:10				5.73	1.51	176	13.14	18.00	77
14:15				5.69	1.52	56.1	13.43	15.68	75
14:20				5.67	1.53	61.0	6.83	16.08	74
14:25				5.62	1.54	25.0	6.26	15.94	75
14:30				5.58	1.54	22.3	6.08	15.43	80
14:35				5.50	1.54	8.3	5.95	15.25	85
14:40				SAMPLES		COLLECTED			

Sample Time 14:40 QC Sample Type N/A Departure Time ~~15:15~~ 15:15

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 Did not record, ant clog

Date: 6/9/2021 **Well #:** MW-002 **Pump Type:**

Arrival Time: 10:54 **Depth to Water (from master list):** 27.31

Weather: Partly Cloudy **Samplers (full name):** Chris Albrecht, Caleb Kuhn, Matt Garbacz

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1115	27.29	250	-0.02	5.81	0.713	389	14.75	21.05	-19
1120				5.61	0.703	221	8.21	20.63	-28
	STOPPED FLOW, CLOGGED W/ ANTS								
1135		250		5.71	.705	95.5	1.29	21.80	-46
	Trouble shooting clogged well until sample time 2 clogged								
	pumps. At maximum power water would slow to no flow.								
	Collected samples with flow upon reset of pump system								
	water level would not replenish.								

Sample Time 12:20 **QC Sample Type** N/A **Departure Time** 12:30

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.736 mg/L

Date: 6/9/21 Well #: MW-3 Pump Type: submersible

Arrival Time: 0658 Depth to Water (from master list): 27.15

Weather: Clear Samplers (full name): Matt Garbarino, Chris Albrecht, Caleb Kuhn

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0710	27.25	400	0.1	6.09	1.60	31.8	3.34	16.27	-131
0715				5.93	1.60	40.4	0.36	15.91	-136
0720				5.85	1.61	24.8	0	16.29	-140
0725				5.81	1.62	16.3	0	16.81	-143
0730				5.77	1.62	10.0	0	16.84	-142
0735				5.74	1.62	6.8	0	17.26	-142
0740				SAMPLES COLLECTED					

Sample Time 0740 QC Sample Type N/A Departure Time 0805

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.205 mg/L

Date: 6/9/2021 Well #: MW 4A Pump Type: Submersible

Arrival Time: 13:43 Depth to Water (from master list): 28.66

Weather: Partly cloudy 89°F Samplers (full name): Matt Garbaring, Chris Albrecht, Caleb Kehn

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1355	28.66	400	0.0	6.45	0.866	12.6	7.70	23.68	-132
1400				6.45	0.886	13.2	3.14	22.59	-147
1405				6.45	0.903	24.6	1.80	21.93	-158
1410				6.49	0.910	29.2	1.56	23.09	-167
1415				6.50	0.923	29.5	1.52	21.19	-168
1420				6.50	0.931	28.5	1.40	22.13	-172
1425				6.51	0.933	27.0	1.41	21.38	-173
1430			SAMPLES COLLECTED						

Sample Time 1430 QC Sample Type N/A Departure Time 14:55

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING Fe2 0.013

Date: 6/8/21 **Well #:** MW 413 **Pump Type:** Submersible

Arrival Time: 12:48 **Depth to Water (from master list):** 28.26

Weather: Partly Cloudy 88°F **Samplers (full name):** Chris Albrecht + Caleb Kahn + Matt Garbe

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1315	28.25	400	-0.01	6.46	0.579	0	6.31	24.71	-104
1320				6.46	0.966	0	3.91	22.03	-55
1325				6.47	1.07	800	3.45	20.30	-29
1330				6.48	1.05	641	3.13	20.66	-8
1335				6.45	1.05	195	2.84	22.01	4
1340				6.46	1.09	160	2.75	22.08	10
1345				6.46	1.11	140	2.74	21.63	16
1350				6.44	1.14	121	2.73	21.43	19
1355				6.45	1.15	129	2.78	20.48	27
1400				6.44	1.15	114	2.78	19.43	33
1405				6.44	1.16	79.5	2.75	20.48	35
1410				6.44	1.17	95.1	2.82	20.88	38
15				6.44	1.17	97.5	2.82	20.38	42

Sample Time	QC Sample Type	Departure Time
1420		

				6.44	1.17	99.5	2.82	20.55	45

~~Drawdown~~ is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING

Fe2 0.42

Date: 6/8/2021 Well #: MW005 Pump Type: Submersible

Arrival Time: 9:54 Depth to Water (from master list): 27.69

Weather: Partly cloudy 80°F Samplers (full name): Matt Garbacino

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
10:10	27.67	300	-0.02	5.99	1.08	113	49.30	20.80	163
1015				6.10	1.21	210	7.25	20.48	146
1020				6.19	1.22	182	5.84	19.83	138
1025				6.22	1.22	164	5.41	20.48	133
1030				6.23	1.23	159	5.58	19.20	130
1035				6.27	1.22	146	5.39	18.85	129
1040				6.26	1.22	143	5.19	19.21	127
1045				SAMPLES COLLECTED					
1050									
1055									

Sample Time 1045 QC Sample Type MS/MSD Departure Time 11:22

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING Fe2 1.502

Date: 6/8/21 **Well #:** MW-6 **Pump Type:** Submersable

Arrival Time: 9:09 **Depth to Water (from master list):** 27.73

Weather: mostly cloudy 80°F **Samplers (full name):** Chris Albrecht, Caleb Kline, Matt Garbarino

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
9:30	27.74	400	0.01	5.62	1.78	19.9	1.59	20.46	-127
9:35				5.59	1.80	21.2	0.52	18.35	-131
9:40				5.57	1.79	23.5	0.35	18.49	-133
9:45				5.57	1.79	23.8	0.26	18.73	-134
9:50				5.57	1.78	24.7	0.13	18.12	-134
9:55				5.58	1.77	25.6	0.05	18.72	-136
10:00				5.49	1.77	25.7	0	17.85	-131
10:05				5.31	1.78	25.9	0	17.29	-121

Sample Time 10:08 **QC Sample Type** N/A **Departure Time**

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

SOUTHEAST ROCKFORD AREA 11 LOW FLOW GROUNDWATER SAMPLING Fe2 0.839

Date: 6/9/21 **Well #:** MW-007 **Pump Type:** Submersible

Arrival Time: 0845 **Depth to Water (from master list):** 26.67

Weather: Partly Cloudy 79°F **Samplers (full name):** Chris Albrecht, Caleb Kuhn, + Matt Gardner

TIME (hh:mm)	DEPTH TO WATER (FT TOC)	FLOW RATE (ml/min)	DRAWDOWN (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
0900	26.78	250	0.11	5.40	1.46	9.1	2.66	23.26	-91
0905				5.22	1.50	6.8	2.07	20.92	-92
0910				5.17	1.51	7.2	1.96	20.76	-95
0915				5.12	1.49	6.7	1.42	19.61	-94
0920				5.11	1.54	7.1	0	19.29	-98
1925				5.11	1.53	6.9	0	19.64	-100
0930				5.09	1.53	7.0	0	19.75	-102
0935									

Sample Time : 0935 **QC Sample Type** DUP **Departure Time** 1010

Dup Time: 0950

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

September 2020 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

$Fe^{2+} = 0.02$ mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20 **WELL #:** MW-1

TIME: 15:15 **DEPTH OF PUMP:**

WEATHER CONDITIONS: cloudy, wind, 60F **SAMPLERS:** Grabs

Start 15:25

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1535			300		6.42	1.26	300	3.91	14.17	78
1540					6.55	1.27	250	4.18	14.21	84
~~1545~~ 1545					6.71	1.27	207	4.04	14.26	79
1550					6.77	1.28	185	3.86	14.33	76
1555					6.82	1.28	140	3.82	14.42	73
1600					6.87	1.28	130	4.02	14.51	71
1605					6.89	1.29	111	3.92	14.36	64
1610					6.90	1.28	105	3.80	14.46	65
1615					6.90	1.28	88	3.80	14.34	65
1620					6.93	1.28	81	3.84	14.31	64
1625	SAMPLE									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: 2.14 mg/L

WL: 24.69

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW 2

TIME: 12:07 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57°F, overcast, windy **SAMPLERS:** Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:20		24.73	250	-0.04	6.68	1.39	34.3	0.79	15.15	-99
12:25					6.69	1.39	34.6	0.57	15.31	-104
12:30					6.69	1.38	27.7	0.53	15.16	-107
12:35					6.71	1.38	22.5	0.43	15.40	-109
12:40					6.70	1.37	18.9	0.40	15.47	-111
12:45					6.71	1.37	18.1	0.37	15.54	-113
12:50					6.70	1.38	13.7	0.39	15.60	-114
12:55					6.70	1.38	13.7	0.36	15.59	-114
13:00					6.71	1.37	13.3	0.33	15.73	-116
13:05	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

$Fe^{2+} = 2.52$ mg/L

LOW FLOW GROUNDWATER SAMPLING

WL = 24.99

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW - 3

TIME: 7:43 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 50° F, overcast, windy **SAMPLERS:** Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
7:55		25.03	400	0.04	7.01	1.28	23.6	3.84	12.82	-99
8:00					7.02	1.29	51.6	1.17	13.28	-123
8:05					7.09	1.29	49.7	0.83	13.32	-131
8:10					7.11	1.29	42.3	0.66	13.36	-136
8:15					7.09	1.29	27.5	0.58	13.47	-137
8:20					7.09	1.28	22.3	0.52	13.57	-138
8:25					7.07	1.28	16.9	0.49	13.60	-138
8:30					7.09	1.28	14.4	0.49	13.56	-140
8:35			↓		7.08	1.27	12.7	0.47	13.68	-140
8:40					7.03	1.26	9.9	0.44	14.13	-140
8:45		SAMPLED								

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+} = 1.12 mg/L

WL = 26.37

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020 **WELL #:** MW - 4A

TIME: ~~AM~~ 14:25 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 59°F, ~~clear~~ overcast, rain **SAMPLERS:** Olivia & Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1445		26.38	325	0.01	7.09	1.23	73.1	8.17	14.22	-221
1450					7.12	1.23	52.8	6.85	14.16	-232
1455					7.14	1.23	46.8	6.68	14.11	-236
1500					7.13	1.22	43.6	6.26	14.19	-234
1505					7.14	1.22	39.1	6.08	14.20	-233
1510					7.14	1.23	30.6	5.77	14.21	-231
1515					7.14	1.24	28.6	5.95	14.23	-229
1520					7.14	1.25	22.8	5.80	14.24	-228
1525					7.13	1.26	18.6	5.51	14.25	-227
1530					7.14	1.27	15.1	5.20	14.26	-226
1535					7.13	1.28	13.0	4.91	14.25	-226
1540					7.13	1.29	11.8	4.65	14.26	-226
1545					7.13	1.29	9.8	4.50	14.44	~226

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

1550 SAMPLES COLLECTED

Fe^{2+} : less than minimum range

LOW FLOW GROUNDWATER SAMPLING

WL: 26.00

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/2020 **WELL #:** MW - 4B

TIME: 15:13 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57°F, cloudy, windy **SAMPLERS:** Matt, Olivia

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:30		26.02	300	0.02	7.26	0.304	18.6	3.47	14.40	-11
15:35			↓	↓	6.86	1.04	17.2	2.40	14.17	-61
1540					7.00	1.21	16.5	2.52	14.00	-24
1545					6.92	1.15	15.1	2.37	13.91	-26
1550					6.88	1.21	14.9	2.58	13.86	-12
1555					6.97	1.24	14.0	2.56	13.93	-4
16:00					7.02	1.26	15.7	2.57	13.97	5
16:05					7.04	1.27	15.7	2.59	14.02	15
16.10					7.06	1.23	14.9	2.70	14.03	25
16:15					7.04	1.24	14.2	2.65	14.00	31
16:20					7.04	1.25	13.5	2.76	14.06	38
16:25					7.04	1.25	13.1	2.80	14.05	41

16:30 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: less than minimum range

WL: 25.56

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20

TIME: 10:30

WELL #: MW-5

DEPTH OF PUMP:

WEATHER CONDITIONS: 57°F, cloudy, windy

SAMPLERS: John, Olivia, Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:45		25.56	425	0.00	7.07	1.08	200	5.03	15.05	66
12:50					7.04	1.23	165	4.91	14.64	67
12:55					7.01	1.23	137	4.79	14.81	68
13:00					6.90	1.22	67.2	4.75	14.79	78
13:05					6.79	1.23	59.3	4.52	14.47	83
13:10					6.85	1.25	48.4	4.40	14.45	83
13:15					6.75	1.26	43.9	4.10	14.35	85
13:20					6.91	1.25	33.6	3.95	14.26	76
13:25					6.98	1.25	21.8	3.92	14.29	76
13:30					6.99	1.26	16.9	3.83	14.38	77
13:35					7.00	1.26	10.0	3.73	14.43	78
13:40			SAMPLED							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

$Fe^{2+} = 2.19$ mg/L

LOW FLOW GROUNDWATER SAMPLING

WL: 25.75

SITE NAME: Southeast Rockford, Area 11

DATE: 9/9/20 **WELL #:** MW-6

TIME: 11:00 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 57F, cloudy **SAMPLERS:** Olivia Burke, Matt Garbarino, John Gobs

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE (mL/min)	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
11:10		25.77	275	0.02	6.92	1.39	21.7	2.39	14.75	-117
11:15					6.91	1.38	17.7	0.86	14.95	-123
11:20					6.91	1.37	16.2	0.67	14.87	-125
11:25					6.95	1.36	17.1	0.56	14.94	-128
11:30					6.95	1.36	13.0	0.54	15.01	-124
11:35					6.82	1.36	13.8	0.54	14.90	-123
11:40					6.94	1.36	12.3	0.49	14.88	-133
11:45	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe 2+ = over range reduced to 10 mL + filled to 25 w/ distilled (2.5 x)

WL = 24.54

LOW FLOW GROUNDWATER SAMPLING

After this reading was 1.99 → x 2.5 = 4.98

SITE NAME: Southeast Rockford, Area 11

DATE: 9/10/2020

WELL #: MW 7

TIME: 9:54

DEPTH OF PUMP:

WEATHER CONDITIONS: 53°F, overcast, windy

SAMPLERS: Olivia + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
10:05		24.54	400	0.00	6.67	2.22	66.0	2.62	14.34	-97
10:10					6.68	2.13	72.8	0.78	14.43	-107
10:15					6.64	2.05	46.2	0.53	14.51	-113
10:20					6.64	2.01	37.1	0.48	14.73	-117
10:25					6.63	2.01	30.3	0.46	14.77	-120
10:30					6.61	1.98	23.6	0.43	14.93	-121
10:35					6.61	1.96	18.1	0.41	14.93	-124
10:40					6.61	1.94	13.6	0.38	14.85	-125
10:45					6.55	1.94	13.6	0.37	14.88	-123
10:50					6.57	1.94	9.9	0.34	14.82	-126
10:55			↓	SAMPLED						

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11 — GW: 19.18

DATE: 9/9/20 **WELL #:** MW-130A

TIME: 0830 **DEPTH OF PUMP:**

WEATHER CONDITIONS: 55F, cloudy, windy **SAMPLERS:** Johan Grabs, Matt Garbarino, Olivia Burke

Start @ 9:00

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
9:05	—	19.56	425	—						
9:10			425	0.38	6.68	1.18	89.0	2.46	13.85	17
9:15		19.69		0.51	6.77	1.18	55.9	2.41	13.87	16
9:20					6.82	1.18	36.4	2.39	13.85	18
9:25		19.53			6.88	1.18	25.6	2.33	13.89	20
9:30					6.90	1.18	19.6	2.36	14.14	17
9:35					6.89	1.18	16.0	2.35	14.22	21
9:40					6.77	1.18	15.3	2.42	13.99	24
9:45					6.74	1.18	11.4	2.46	13.91	23
9:50					6.69	1.18	9.8	2.44	13.85	24
9:55	SAMPLES		COLLECTED							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

December 2020 Groundwater Sampling Sheets

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 0.19 mg/L

SITE NAME: Southeast Rockford, Area 11

Static WL 20.16

DATE: 12/01/20 WELL #: 130A

TIME: 0755 DEPTH OF PUMP:

WEATHER CONDITIONS: clear 19°F SAMPLERS: C. Cox . A ~~Pch~~ Phelps

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE mL/min	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
8:35	[illegible]	[illegible] 20.16	350	0.72	7.21	1.10	354	3.75	9.92	78
8.40					7.33	1.14	254	2.15	9.97	38
845					7.50	1.16	165	2.60	10.31	-1
850					7.61	1.16	131	2.58	10.45	-13
855					7.69	1.17	108	2.40	10.57	-20
900					7.73	1.17	91.1	2.16	10.57	-23
905					7.79	1.17	~~66~~ 67.9	3.61	10.67	-24
910					7.81	1.17	56.4	2.24	10.45	-23
915					7.84	1.17	48.7	2.13	10.37	-23
920					7.86	1.17	42.7	2.13	10.39	-23
925					7.88	1.17	41.1	2.19	10.59	-22
930					7.89	1.17	31.8	2.18	10.64	-22
935	SAMPLES COLLECTED				7.90	1.17	27.2	2.19	10.71	-21

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

12/01/20 1350

clear, 34°

MW-1

Static WL 28.13

Time	Vol purged	Flow rate	Draw down	pH	Spec cond	Turbidity	DO	temp	ORD
14:01	0.25 gal	475 ml/min		7.96	1.23	537	6.95	12.57	
14:06	1 gal			7.99	1.23	408	5.59	12.84	
14:11	1.5 gal			8.01	1.24	252	5.88	12.84	
14:16	2 gal			8.01	1.23	208	5.84	12.79	
14:21	2.5 gal			8.01	1.23	164	5.79	12.81	
14:26	3.25 gal			8.02	1.23	133	5.72	12.75	
14:31	3.75 gal			8.02	1.23	126	5.61	12.65	
14:36	~~4 gal~~ 4.5 gal			8.01	1.23	98.8	6.27	12.75	
14:41	5 gal			8.02	1.22	68.2	5.72	12.64	
14:46	5.25 gal			8.01	1.22	58.0	5.73	12.85	
14:51	5.75 gal			8.01	1.22	49.5	5.81	12.75	
14:56	7 gal			8.01	1.22	36.0	5.78	12.64	
15:01	7.15 gal			8.01	1.22	31.5	5.77	12.65	
15:06	8 gal			8.02	1.20	25.6	6.48	12.40	

pg 1 of 2

COMPUTED BY ____ DATE ____ PAGE NO. ____

JOB NO. ____ DATE CHECKED ____ CHECKED BY ____

CLIENT ____ PROJECT ____ DETAIL ____

CDM Smith

CDMSMITH 8

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/01/20 **WELL #:** MW 1

TIME: **DEPTH OF PUMP:**

WEATHER CONDITIONS: **SAMPLERS:**

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:11	8.25gal				8.01	1.20	20.4	5.75	12.55	~~12.53~~ 17
15:16	8.75gal				8.01	1.20	17.4	5.74	12.44	18
15:21	9gal				8.01	1.19	15.8	5.74	12.11	19
15:26	9.25gal				8.02	1.19	12.0	5.69	12.08	20
15:31	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Ferrous Iron 0.0

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 2.70 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW002

TIME: 1158 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly cloudy, 43°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
12:10		25.58	300	0.1	7.14	1.52	125	1.06	13.22	-84
12:15					7.26	1.50	92.0	0.91	13.61	-88
12:20					7.17	1.48	55.4	0.56	13.67	-100
12:25					7.04	1.45	47.7	0.50	13.77	-93
12:30					6.94	1.45	49.8	0.47	13.85	-94
12:35					6.99	1.45	31.8	0.45	13.92	-92
12:40					7.06	1.45	723.5	0.44	13.91	-101
12:45					7.07	1.43	32.7	0.43	14.02	-108
12:50					7.18	1.45	45.1	0.42	14.15	-112
12:55					7.13	1.44	66.2	0.40	14.15	-106
13:00					7.19	1.43	120	0.39	14.14	-111
13:05			350		7.21	1.43	199	0.39	14.18	-109

13:10 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Dilution factor

$Fe^{2+} = 1.54 \times 2.5$

$= 3.85$ mg/L

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW 3

TIME: 707 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly cloudy 21°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
800		25.19	375	-0.67	7.25	1.35	226	2.19	10.97	-132
~~0805~~ 825					7.42	1.35	104	1.16	10.70	-143
810					7.38	1.35	55.1	0.91	11.23	-142
815					7.31	1.35	32.4	0.82	11.31	-141
820					7.41	1.35	20.8	0.37	10.64	-144
825					7.49	1.35	14.4	0.68	11.3	-154
830					7.56	1.35	11.5	0.68	11.17	-155
835					7.49	1.34	9.4	0.67	11.83	-157
840					7.55	1.34	7.0	0.62	11.75	-153
845	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Fe^{+2} 2.61 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/2/2020 **WELL #:** MW 4A

TIME: 14:04 **DEPTH OF PUMP:**

WEATHER CONDITIONS: Partly Cloudy 44°F **SAMPLERS:** Matt + Alan

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1420		27.27	330	0.39	7.59	1.31	155	5.52	13.98	-292
1425					7.75	1.30	65.3	4.11	13.65	-298
1430					7.53	1.30	35.2	3.29	13.41	-284
1435					7.44	1.31	17.7	2.85	13.17	-280
1440					7.73	1.31	9.2	0.54	12.35	-290
1445					7.58	1.32	7.5	0.58	12.73	-276
1450					7.59	1.33	5.8	0.56	12.56	-279
1455					7.43	1.34	3.6	0.54	12.34	-276
1500	SAMPLES COLLECTED									

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Fe^{2+}: 0.73 mg/L

LOW FLOW GROUNDWATER SAMPLING

SITE NAME: Southeast Rockford, Area 11

DATE: 12/1/2020 **WELL #:** MW 4B

TIME: 15:12 **DEPTH OF PUMP:**

WEATHER CONDITIONS: clear 34°F **SAMPLERS:** Matt Garbe

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
15:40		~~26.95~~	400	0.05	7.19	1.29	964	16.61	9.46	41
1545					7.29	1.27	506	8.46	9.37	50
1550					7.31	1.32	159	7.40	9.93	56
1555					7.35	1.38	114	6.69	9.95	59
1600					7.43	1.40	99.8	6.28	9.39	58
1605					7.41	1.40	97.2	5.60	8.75	67
1610					7.39	1.40	108	5.13	9.90	65
1620					7.38	1.41	74.0	4.97	10.17	82
1625					7.38	1.41	52.0	4.74	10.32	98
1630					7.37	1.39	40.8	4.51	10.72	95
1635					7.36	1.39	31.1	4.36	10.74	99
1640					7.39	1.40	32.0	4.15	16.93	94

16 45 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Fe^{2+}: 0.03 mg/L

SITE NAME: Southeast Rockford, Area 11

DATE: 12/1/2020 WELL #: MW 005

TIME: 12:41 DEPTH OF PUMP:

WEATHER CONDITIONS: Clear 32°F SAMPLERS: Matt Garbarino

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1250		26.47	500	0.2	6.40	1.41	237	9.00	10.12	125
1255					6.92	1.49	313	5.62	11.51	137
1300					7.01	1.48	267	5.50	11.49	141
1305					7.10	1.48	199	5.27	10.18	146
1310					7.13	1.48	126	5.17	11.48	150
1315					7.15	1.47	106	5.08	11.83	152
1320					7.15	1.47	85.7	5.08	11.62	155
1325					7.15	1.48	68.5	5.02	11.45	157
1330					7.16	1.49	64.8	5.12	10.93	156
1335					7.14	1.50	45.6	5.03	12.15	159
1340					7.15	1.50	41.1	4.96	12.01	159
1345					7.16	1.49	39.9	4.85	12.54	160

1350 SAMPLES COLLECTED

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

LOW FLOW GROUNDWATER SAMPLING

Static water level 26.57

SITE NAME: Southeast Rockford, Area 11

DATE: 12/01 **WELL #:** MW -6

TIME: 1105 **DEPTH OF PUMP:**

WEATHER CONDITIONS: clear 30s **SAMPLERS:**

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1126	1gal		500ml/min		7.87	1.43	76.5	3.04	12.35	-134
1131	2gal		↓		7.88	1.43	23.1	1.55	12.62	-139
1136	2.5gal				7.90	1.41	13.6	1.48	12.61	-142
1141	3.5gal				7.91	1.40	11.5	1.45	12.64	-145
1146	4.5gal				7.91	1.39	8.4	1.43	1236	-146
1151	4.75gal				7.91	1.39	6.4	1.39	12.73	-147
1156	5gal				8.03	1.39	5.0	1.42	12.62	-149
1201	5.25gal				7.94	1.38	3.8	1.35	12.35	-150
1206	5.5gal				7.92	1.38	2.7	1.33	12.66	-150
1211			SAMPLE							

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Ferrous 2.96

LOW FLOW GROUNDWATER SAMPLING

WL 25.41

SITE NAME: Southeast Rockford, Area 11

Fe^{2+} = 2.86 mg/L

DATE: 12/2/2020

WELL #: MW 007

TIME: ~~10~~ 9 57

DEPTH OF PUMP:

WEATHER CONDITIONS: Clear 33°F

SAMPLERS: Alan + Matt

ELAPSED TIME (MIN)	VOLUME PURGED (GALS)	DEPTH TO WATER (FT TIC)	FLOW RATE	DRAWDOWN FEET (+/- 0.3 FT)	ph (+/- 0.25 SU)	SPECIFIC COND. (+/- 50 mS/cm)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)	TEMP °C (+/- 5 C°)	REDOX POTENTIAL mV (+/- 10 mv)
1010		25.41	450	0.03	6.95	1.43	194	6.99	10.80	-81
1015					6.86	1.39	206	3.17	11.65	-92
1020					6.87	1.39	125	2.54	11.84	-106
1025					6.93	1.36	74.5	1.46	11.97	-116
1030					6.97	1.37	44.4	1.15	12.31	-118
1035					6.96	1.37	31.8	0.57	12.16	-126
1040					6.95	1.38	31.3	0.54	12.35	-127
1045					6.86	1.39	28.4	0.53	12.28	-124
1050	SAMPLES COLLECTED				7.02	1.38	20.7	0.50	12.57	-128

Drawdown is not to exceed 0.3 of a foot. Flow rate should not exceed 500 ml/min during purging or 250 ml/min during sampling. Readings should be taken every three to five minutes. The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parentheses. Turbidity +/- 10% or less than 5 NTU.

Appendix C
Data Validation Reports and Data Packages

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March 2020 Data Validation and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200303
Laboratory: ESAT / Tech Law

Matrix: Groundwater
Collection date: 03/03/2020 & 03/04/2020
Analysis/Methods:

1,4-Dioxane - SW-846 8000D SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200303-01	A11-TB002-200304	E200303-07	A11-MW004B-200303
E200303-02	A11-FB001-200303	E200303-08	A11-MW005-200303
E200303-03	A11-MW001-200303	E200303-09	A11-MW006-200303
E200303-04	A11-MW002-200304	E200303-10	A11-MW007-200304
E200303-05	A11-MW003-200304	E200303-11	A11-MW007-200304-D
E200303-06	A11-MW004A-200304	E200303-12	A11-TB001-200303

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**No**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200304	**A11-MW007-200304-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
E20C007-MS1 / MSD1 (200303-04)	Acceptable			
E20C007-MS2 / MSD2 (200303-08)	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**No**
Laboratory Control Sample criteria met?			**No**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**No**
Was the ICAL criteria met?			**No**
Was the CCV criteria met?			**No**
Was the Tuning criteria met?			**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?			**Yes**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20C007-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200303	Nondetect			
A11-TB001-200303	Nondetect			
A11-TB002-200304	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20C007-MS1 / MSD1 (200303-04)	Acceptable			
E20C007-MS2 / MSD2 (200303-08)	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20C007-BS1	Acceptable			

ICAL	RRF	%RSD	Limits	Qualifiers	Associated Samples
November 20, 2019	Acceptable	Acceptable			

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/10/2020 10:44	Acceptable	Acceptable			
3/10/2020 3:41	Acceptable	Acceptable			
3/11/2020 10:14	Acceptable	Acceptable			
3/11/2020 1:23	Acceptable	Acceptable			

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20C007-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was -0.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: Kristine Molloy Date: 4/3/2020

Data Reviewer: Cherie Zakowski Date: 4/5/2020

TechLaw Inc ESAT Region 5
536 South Clark Street, Suite 734
Chicago, IL 60605
(312) 353-8303
(312) 353-5814 (Fax)
www.techlawinc.com

Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-TB002-200304 (E200303-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.221	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.780	*70.5%*	*70-130*	"	"	"

A11-FB001-200303 (E200303-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.759	*75.3%*	*70-130*	"	"	"

A11-MW001-200303 (E200303-03) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**6.85**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.802	*79.6%*	*70-130*	"	"	"

A11-MW002-200304 (E200303-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.31**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.891	*87.7%*	*70-130*	"	"	"

A11-MW003-200304 (E200303-05) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.57**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.822	*81.6%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW004A-200304 (E200303-06) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.41**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.789	*77.6%*	*70-130*	"	"	"

A11-MW004B-200303 (E200303-07) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**9.75**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.784	*77.8%*	*70-130*	"	"	"

A11-MW005-200303 (E200303-08) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**5.35**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.856	*84.9%*	*70-130*	"	"	"

A11-MW006-200303 (E200303-09) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.54**			0.202	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.819	*81.2%*	*70-130*	"	"	"

A11-MW007-200304 (E200303-10) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.38**			0.203	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.861	*84.7%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW007-200304-D (E200303-11) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**3.30**			0.205	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.997	*97.3%*	*70-130*	"	"	"

A11-TB001-200303 (E200303-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 13:30**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20C007	Mar-09-20	Mar-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.848	*82.0%*	*70-130*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E20C007 - EPA 522

Blank (E20C007-BLK1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**			0.200	ug/L						
Surrogate: 1,4-Dioxane-d8	*0.766*				"	*1.00*		*76.6%*	*70-130*		

LCS (E20C007-BS1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.764**			0.200	ug/L	1.00		76.4%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.728*				"	*1.00*		*72.8%*	*70-130*		

MRL Check (E20C007-MRL1) — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**	Q		0.200	ug/L	0.200		%	50-150		
Surrogate: 1,4-Dioxane-d8	*0.738*				"	*1.00*		*73.8%*	*70-130*		

Matrix Spike (E20C007-MS1) — **Source: E200303-04** — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**4.19**			0.207	ug/L	1.03	3.31	85.7%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.911*				"	*1.03*		*88.2%*	*70-130*		

Matrix Spike (E20C007-MS2) — **Source: E200303-08** — **Prepared: Mar-09-20 Analyzed: Mar-11-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**6.32**			0.203	ug/L	1.02	5.35	95.4%	70-130		
Surrogate: 1,4-Dioxane-d8	*0.822*				"	*1.02*		*80.9%*	*70-130*		

Matrix Spike Dup (E20C007-MSD1) — **Source: E200303-04** — **Prepared: Mar-09-20 Analyzed: Mar-10-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**4.16**			0.205	ug/L	1.02	3.31	83.4%	70-130	2.66	30
Surrogate: 1,4-Dioxane-d8	*0.880*				"	*1.02*		*85.9%*	*70-130*		

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

1,4-Dioxane by GC-MS - Quality Control
TechLaw - ESAT Contract

Batch E20C007 - EPA 522

Matrix Spike Dup (E20C007-MSD2) **Source: E200303-08** **Prepared: Mar-09-20 Analyzed: Mar-11-20**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**6.34**			0.203	ug/L	1.02	5.35	97.0%	70-130	1.71	30
Surrogate: 1,4-Dioxane-d8	*0.859*				"	*1.02*		*84.6%*	*70-130*		

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Mar-18-20 15:26

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200306
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 03/03/2020 & 03/04/2020
Analysis/Methods:

Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2003006-01	A11-TB002-200304	2003006-07	A11-MW004B-200303
2003006-02	A11-FB001-200303	2003006-08	A11-MW005-200303
2003006-03	A11-MW001-200303	2003006-09	A11-MW006-200303
2003006-04	A11-MW002-200304	2003006-10	A11-MW007-200304
2003006-05	A11-MW003-200304	2003006-11	A11-MW007-200304-D
2003006-06	A11-MW004A-200304	2003006-12	A11-TB001-200303

Data validation was performed in accordance with the specific analytical method and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?		**No**	
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?		**No**	
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates		Sample A11-MW007-200304	Duplicate A11-MW007-200304-D	%RPD	Qualifiers	Associated Samples
	1,3,5-Trimethylbenzene	4.84	4.57	NC	None	
	Isopropylbenzene	12	11	NC	None	Sample results < 5xs RL; ABS Diff. < RL
	n-Propylbenzene	6.68	6.03	NC	None	

MS/MSD		%RPD	Limit	Qualifiers	Associated Samples
B20C019-MS1 / MSD1 (2003006-04RE1)		Acceptable			
B20D016-MS1 / MSD1 (2003006-08RE2)		Acceptable			

LCS/LCSD		%RPD	Limits	Qualifiers	Associated Samples
B20C012-BS1 / BSD1		Acceptable			
B20C019-BS1 / BSD1	1,1-Dichloroethene	21.8	20%	**J****	**2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1**
	2,2-Dichloropropane	55.3	20%	**J****	
	Hexachlorobutadiene	21.3	20%	**J****	
	n-Butylbenzene	23.2	20%	**J****	
B20C016-BS1		Acceptable			

**Sample results nondetect - no qualifiers required.

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)		**No**	
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?		**No**	
Was the ICAL criteria met?		**No**	
Was the CCV criteria met?		**No**	
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20C012-BLK1		Nondetect			
E20C012-BLK2		Nondetect			
E20C019-BLK1		Nondetect			
E20C019-BLK2		Nondetect			
E20C016-BLK1		Nondetect			

Field Blank		**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-FB001-200303		Nondetect			
A11-TB001-200303	cis-1,2-Dichloroethene	2.33	0.43 / 2.0	None	Sample results nondetect
A11-TB002-200304	cis-1,2-Dichloroethene	2.2	0.43 / 2.0	None	Sample results nondetect

Surrogates		**%R**	**Limit**	**Qualifiers**	**Associated Samples**
		Acceptable			

MS/MSD		**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20C019-MS1 / MSD1 (2003006-04RE1)	Carbon Disulfide	60.5 / 58.6	60-110	**J / UJ**	**2003006-04RE1****
B20D016-MS1 / MSD1 (2003006-08RE2)		Acceptable			

**Results reported from 2003006-04 - no qualification required

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20C012-BS1 / BSD1		Acceptable			
B20C019-BS1 / BSD1					
	Acetone	146 / 136	70-130	**J****	**2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1**
	2,2-Dichloropropane	110 / 62.6	70-130	**J / UJ**	
B20D016-BS1	Bromomethane	65.2	70-130	**J / UJ**	**2003006-05RE2 through 2003006-09RE2**

**Sample results nondetect - no qualifiers required.

ICAL		**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
3/5/2020 13:53	1,1-Dichloroethene	Acceptable	22.52	20	**J****	**All samples**
	Carbon Disulfide	Acceptable	20.18	20	**J****	**All samples**
	Carbon Tetrachloride	Acceptable	26.45	20	**J****	**All samples**
	Tetrachloroethene	Acceptable	21.62	20	**J****	**All samples**
	1,1,1-Trichloroethane	Acceptable	20.67	20	**J**	**All samples**

**Sample results nondetect - no qualifiers required.

ICV / CCV		**RRF**	**%D**	**Limits**	**Qualifiers**	**Associated Samples**
ICV						
3/05/2020 17:56	Acetone	Acceptable	96.5	40	**J / UJ**	**All samples**
3/05/2020 2:38		Acceptable	Acceptable			

CCV						
3/09/2020 8:39		Acceptable	Acceptable			
3/09/2020 17:15		Acceptable	Acceptable			
3/10/2020 17:12	Acetone	Acceptable	-46.5	40	J / UJ	2003006-03RE1 through 2003006-06RE1, 2003006-10RE1, 2003006-11RE1
3/11/2020 4:24	Acetone	Acceptable	-35.6	40	J / UJ	
3/11/2020 10:40	Bromomethane	Acceptable	35.2	30	J / UJ	2003006-05RE2 through 2003006-09RE2
	Carbon Disulfide	Acceptable	28	25	J / UJ	
	Trans 1,3-Dichloropropane	Acceptable	20.2	20	J / UJ	

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20C012-MRL1	Acceptable			

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 4.7 & 5.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, samples were first screened at a 50x dilution and several dilution factors were subsequently required. Each analyte is reported at the lowest dilution factor for which the analyte concentration remained within calibration range.

Case narrative indicates co-elution affected the calculated concentration of n-butylbenzene in sample 2003006-05RE2. Potential bias of the quantification ion led to the result being qualified as estimated by the laboratory.

As stated in the case narrative, no -BSD1 is associated with the B20D016 batch due to an error in laboratory instrument that was not noticed or corrected until after the time frame required by the SOP for a closing CCV.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 4/16/2020

Data Reviewer: Cherie Zakowski Date: 4/18/2020

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200304 (2003006-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**2.20**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200304 (2003006-01) **Matrix: Water** **Sampled: Mar-04-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	11.7	*117%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	10.6	*106%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.12	*91.2%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200303 (2003006-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200303 (2003006-02) **Matrix: Water** **Sampled: Mar-03-20 17:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.8	*108%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.7	*107%*	*84-122*	"	"	"
Toluene-d8	10.0	*100%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.28	*92.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200303 (2003006-03RE1) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C019	Mar-10-20	Mar-10-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.51**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**6.74**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200303 (2003006-03RE1) **Matrix: Water** **Sampled: Mar-03-20 09:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20C019	Mar-10-20	Mar-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.03	*90.3%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			100	"	"	"	"	"
Vinyl chloride	**U**			100	"	"	"	"	"
Bromomethane	**U**			100	"	"	"	"	"
Chloroethane	**U**			100	"	"	"	"	"
Trichlorofluoromethane	**U**			100	"	"	"	"	"
1,1-Dichloroethene	**U**			100	"	"	"	"	"
Acetone	**U**			625	"	"	"	"	"
Carbon disulfide	**U**	(MS), L		100	"	"	"	"	"
Methylene chloride	**U**			100	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			100	"	"	"	"	"
1,1-Dichloroethane	**U**			100	"	"	"	"	"
2,2-Dichloropropane	**U**			100	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			100	"	"	"	"	"
2-Butanone	**U**			625	"	"	"	"	"
Bromochloromethane	**U**			100	"	"	"	"	"
Chloroform	**U**			100	"	"	"	"	"
1,1,1-Trichloroethane	**U**			100	"	"	"	"	"
Carbon tetrachloride	**U**			100	"	"	"	"	"
1,1-Dichloropropene	**U**			100	"	"	"	"	"
Benzene	**U**			100	"	"	"	"	"
1,2-Dichloroethane	**U**			100	"	"	"	"	"
Trichloroethene	**U**			100	"	"	"	"	"
1,2-Dichloropropane	**U**			100	"	"	"	"	"
Dibromomethane	**U**			100	"	"	"	"	"
Bromodichloromethane	**U**			100	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			100	"	"	"	"	"
4-Methyl-2-pentanone	**U**			250	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			100	"	"	"	"	"
1,1,2-Trichloroethane	**U**			100	"	"	"	"	"
Tetrachloroethene	**U**			100	"	"	"	"	"
1,3-Dichloropropane	**U**			100	"	"	"	"	"
2-Hexanone	**U**			250	"	"	"	"	"
Dibromochloromethane	**U**			100	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			100	"	"	"	"	"
Chlorobenzene	**U**			100	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			100	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	**U**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
Bromoform	**U**			100	"	"	"	"	"
Isopropylbenzene	**121**			100	"	"	"	"	"
Bromobenzene	**U**			100	"	"	"	"	"
1,2,3-Trichloropropane	**U**			100	"	"	"	"	"
n-Propylbenzene	**215**			100	"	"	"	"	"
2-Chlorotoluene	**U**			100	"	"	"	"	"
1,3,5-Trimethylbenzene	**285**			100	"	"	"	"	"
4-Chlorotoluene	**U**			100	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			100	"	"	"	"	"
tert-Butylbenzene	**U**			100	"	"	"	"	"
1,2,4-Trimethylbenzene	**822**			100	"	"	"	"	"
sec-Butylbenzene	**U**			100	"	"	"	"	"
1,3-Dichlorobenzene	**U**			100	"	"	"	"	"
p-Isopropyltoluene	**U**			100	"	"	"	"	"
1,4-Dichlorobenzene	**U**			100	"	"	"	"	"
1,2-Dichlorobenzene	**U**			100	"	"	"	"	"
n-Butylbenzene	**U**			100	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			100	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			100	"	"	"	"	"
Hexachlorobutadiene	**U**			100	"	"	"	"	"
Naphthalene	**U**			100	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.5	*105%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.6	*106%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200304 (2003006-04RE1) **Matrix: Water** **Sampled: Mar-04-20 13:35** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**78600**			4000	ug/L	2000	B20C019	Mar-10-20	Mar-10-20
Ethylbenzene	**6840**			4000	"	"	"	"	"
m+p-Xylene	**19800**			8000	"	"	"	"	"
o-Xylene	**5100**			4000	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.76	*97.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.45	*94.5%*	*84-108*	"	"	"

A11-MW003-200304 (2003006-05RE1) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**1500**			400	ug/L	200	B20C019	Mar-10-20	Mar-10-20
m+p-Xylene	**13000**			800	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.4	*104%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.2	*111%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.50	*95.0%*	*84-108*	"	"	"

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			20.0	"	"	"	"	"
Vinyl chloride	**U**			20.0	"	"	"	"	"
Bromomethane	**U**	(LCS), J		20.0	"	"	"	"	"
Chloroethane	**U**			20.0	"	"	"	"	"
Trichlorofluoromethane	**U**			20.0	"	"	"	"	"
1,1-Dichloroethene	**U**			20.0	"	"	"	"	"
Acetone	**U**			125	"	"	"	"	"
Carbon disulfide	**U**			20.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Methylene chloride	**U**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
trans-1,2-Dichloroethene	**U**			20.0	"	"	"	"	"
1,1-Dichloroethane	**U**			20.0	"	"	"	"	"
2,2-Dichloropropane	**U**			20.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			20.0	"	"	"	"	"
2-Butanone	**U**			125	"	"	"	"	"
Bromochloromethane	**U**			20.0	"	"	"	"	"
Chloroform	**U**			20.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			20.0	"	"	"	"	"
Carbon tetrachloride	**U**			20.0	"	"	"	"	"
1,1-Dichloropropene	**U**			20.0	"	"	"	"	"
Benzene	**U**			20.0	"	"	"	"	"
1,2-Dichloroethane	**U**			20.0	"	"	"	"	"
Trichloroethene	**U**			20.0	"	"	"	"	"
1,2-Dichloropropane	**U**			20.0	"	"	"	"	"
Dibromomethane	**U**			20.0	"	"	"	"	"
Bromodichloromethane	**U**			20.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			20.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			50.0	"	"	"	"	"
Toluene	**38.4**			20.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			20.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			20.0	"	"	"	"	"
Tetrachloroethene	**U**			20.0	"	"	"	"	"
1,3-Dichloropropane	**U**			20.0	"	"	"	"	"
2-Hexanone	**U**			50.0	"	"	"	"	"
Dibromochloromethane	**U**			20.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			20.0	"	"	"	"	"
Chlorobenzene	**U**			20.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			20.0	"	"	"	"	"
o-Xylene	**U**			20.0	"	"	"	"	"
Styrene	**U**			20.0	"	"	"	"	"
Bromoform	**U**			20.0	"	"	"	"	"
Isopropylbenzene	**74.4**			20.0	"	"	"	"	"
Bromobenzene	**U**			20.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			20.0	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200304 (2003006-05RE2) **Matrix: Water** **Sampled: Mar-04-20 09:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
n-Propylbenzene	**76.0**			20.0	ug/L	10	B20D016	Mar-10-20	Mar-11-20
2-Chlorotoluene	**U**			20.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**121**			20.0	"	"	"	"	"
4-Chlorotoluene	**U**			20.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			20.0	"	"	"	"	"
tert-Butylbenzene	**U**			20.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**329**			20.0	"	"	"	"	"
sec-Butylbenzene	**27.8**			20.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			20.0	"	"	"	"	"
p-Isopropyltoluene	**U**			20.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			20.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			20.0	"	"	"	"	"
n-Butylbenzene	**23.7**	J		20.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			20.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			20.0	"	"	"	"	"
Hexachlorobutadiene	**U**			20.0	"	"	"	"	"
Naphthalene	**29.1**			20.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			20.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.48	*94.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	9.37	*93.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*84-108*	"	"	"

A11-MW004A-200304 (2003006-06RE1) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**45300**			2000	ug/L	1000	B20C019	Mar-10-20	Mar-10-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.61	*95.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.80	*88.0%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200304 (2003006-06RE2) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**	(LCS), J		50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"
Trichlorofluoromethane	**U**			50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**			50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200304 (2003006-06RE2) **Matrix: Water** **Sampled: Mar-04-20 15:20** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			50.0	ug/L	25	B20D016	Mar-10-20	Mar-11-20
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**260**			50.0	"	"	"	"	"
m+p-Xylene	**414**			100	"	"	"	"	"
o-Xylene	**U**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**U**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.57	*95.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.2	*111%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.19	*91.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200303 (2003006-07RE2) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.86**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.29**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200303 (2003006-07RE2) **Matrix: Water** **Sampled: Mar-03-20 16:05** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.4	*113%*	*84-122*	"	"	"
Toluene-d8	9.83	*98.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.72	*87.2%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200303 (2003006-08RE2) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**	(MS), L		2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**3.77**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**2.92**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200303 (2003006-08RE2) **Matrix: Water** **Sampled: Mar-03-20 13:40** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.5	*114%*	*84-122*	"	"	"
Toluene-d8	9.56	*95.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.61	*86.1%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200303 (2003006-09RE2) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**	(LCS), J		2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.62**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200303 (2003006-09RE2) **Matrix: Water** **Sampled: Mar-03-20 11:00** **Received: Mar-05-20 14:45**

Sample Qualifiers: (LCS), J

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dibromoethane (EDB)	**U**			2.00	ug/L	1	B20D016	Mar-10-20	Mar-11-20
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.85	*98.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1	*110%*	*84-122*	"	"	"
Toluene-d8	9.35	*93.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.88	*88.8%*	*84-108*	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**959**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
m+p-Xylene	**3050**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.9	*109%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	11.0	*110%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.67	*96.7%*	*84-108*	"	"	"

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-11-20
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**U**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**U**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**U**			4.00	"	"	"	"	"
Acetone	**U**			25.0	"	"	"	"	"
Carbon disulfide	**U**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
1,1-Dichloroethane	**U**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
2-Butanone	**U**			25.0	"	"	"	"	"
Bromochloromethane	**U**			4.00	"	"	"	"	"
Chloroform	**U**			4.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			4.00	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**U**			4.00	"	"	"	"	"
1,2-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromomethane	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-11-20
cis-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			10.0	"	"	"	"	"
Toluene	**U**			4.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			4.00	"	"	"	"	"
Tetrachloroethene	**U**			4.00	"	"	"	"	"
1,3-Dichloropropane	**U**			4.00	"	"	"	"	"
2-Hexanone	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			4.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			4.00	"	"	"	"	"
Chlorobenzene	**U**			4.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			4.00	"	"	"	"	"
Styrene	**U**			4.00	"	"	"	"	"
Bromoform	**U**			4.00	"	"	"	"	"
Isopropylbenzene	**12.0**			4.00	"	"	"	"	"
Bromobenzene	**U**			4.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			4.00	"	"	"	"	"
n-Propylbenzene	**6.68**			4.00	"	"	"	"	"
2-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**4.84**			4.00	"	"	"	"	"
4-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
tert-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**22.6**			4.00	"	"	"	"	"
sec-Butylbenzene	**U**			4.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			4.00	"	"	"	"	"
p-Isopropyltoluene	**U**			4.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			4.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			4.00	"	"	"	"	"
n-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			4.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			4.00	"	"	"	"	"
Hexachlorobutadiene	**U**			4.00	"	"	"	"	"
Naphthalene	**U**			4.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304 (2003006-10RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.74			*96.8%*		*73-124*	*B20C019*	*Mar-10-20*	*Mar-11-20*
1,2-Dichloroethane-d4	10.7			*106%*		*84-122*	"	"	"
Toluene-d8	9.63			*96.3%*		*88-108*	"	"	"
4-Bromofluorobenzene	10.6			*106%*		*84-108*	"	"	"

A11-MW007-200304-D (2003006-11) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**863**			100	ug/L	50	B20C012	Mar-06-20	Mar-09-20
m+p-Xylene	**2800**			200	"	"	"	"	"
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.7			*106%*		*73-124*	"	"	"
1,2-Dichloroethane-d4	11.1			*110%*		*84-122*	"	"	"
Toluene-d8	10.4			*104%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.80			*98.0%*		*84-108*	"	"	"

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
Chloromethane	**U**			4.00	"	"	"	"	"
Vinyl chloride	**U**			4.00	"	"	"	"	"
Bromomethane	**U**			4.00	"	"	"	"	"
Chloroethane	**U**			4.00	"	"	"	"	"
Trichlorofluoromethane	**U**			4.00	"	"	"	"	"
1,1-Dichloroethene	**U**			4.00	"	"	"	"	"
Acetone	**U**			25.0	"	"	"	"	"
Carbon disulfide	**U**			4.00	"	"	"	"	"
Methylene chloride	**U**			4.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
1,1-Dichloroethane	**U**			4.00	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		4.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			4.00	"	"	"	"	"
2-Butanone	**U**			25.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
Chloroform	**U**			4.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			4.00	"	"	"	"	"
Carbon tetrachloride	**U**			4.00	"	"	"	"	"
1,1-Dichloropropene	**U**			4.00	"	"	"	"	"
Benzene	**U**			4.00	"	"	"	"	"
1,2-Dichloroethane	**U**			4.00	"	"	"	"	"
Trichloroethene	**U**			4.00	"	"	"	"	"
1,2-Dichloropropane	**U**			4.00	"	"	"	"	"
Dibromomethane	**U**			4.00	"	"	"	"	"
Bromodichloromethane	**U**			4.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			10.0	"	"	"	"	"
Toluene	**U**			4.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			4.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			4.00	"	"	"	"	"
Tetrachloroethene	**U**			4.00	"	"	"	"	"
1,3-Dichloropropane	**U**			4.00	"	"	"	"	"
2-Hexanone	**U**			10.0	"	"	"	"	"
Dibromochloromethane	**U**			4.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			4.00	"	"	"	"	"
Chlorobenzene	**U**			4.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			4.00	"	"	"	"	"
Styrene	**U**			4.00	"	"	"	"	"
Bromoform	**U**			4.00	"	"	"	"	"
Isopropylbenzene	**11.0**			4.00	"	"	"	"	"
Bromobenzene	**U**			4.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			4.00	"	"	"	"	"
n-Propylbenzene	**6.03**			4.00	"	"	"	"	"
2-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**4.57**			4.00	"	"	"	"	"
4-Chlorotoluene	**U**			4.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			4.00	"	"	"	"	"
tert-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**21.0**			4.00	"	"	"	"	"
sec-Butylbenzene	**U**			4.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200304-D (2003006-11RE1) **Matrix: Water** **Sampled: Mar-04-20 11:20** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			4.00	ug/L	2	B20C019	Mar-10-20	Mar-10-20
p-Isopropyltoluene	**U**			4.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			4.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			4.00	"	"	"	"	"
n-Butylbenzene	**U**			4.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			4.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			4.00	"	"	"	"	"
Hexachlorobutadiene	**U**			4.00	"	"	"	"	"
Naphthalene	**U**			4.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			4.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*109%*	*84-122*	"	"	"
Toluene-d8	9.90	*99.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.7	*107%*	*84-108*	"	"	"

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**2.33**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1-Trichloroethane	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Apr-20-20 17:34

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200303 (2003006-12) **Matrix: Water** **Sampled: Mar-03-20 08:00** **Received: Mar-05-20 14:45**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			2.00	ug/L	1	B20C012	Mar-06-20	Mar-09-20
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.7	*106%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.5	*104%*	*84-122*	"	"	"
Toluene-d8	10.4	*104%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.22	*92.2%*	*84-108*	"	"	"

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20030087
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 03/03/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number
20030087-01	A11-MW001-200303
20030087-02	A11-MW005-200303
20030087-03	A11-MW006-200303
20030087-04	A11-MW004B-200303

Data validation was performed in accordance with the specific analytical methods, the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			N/A
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			Yes
Laboratory Control Spike Duplicates RPD within limits?			Yes
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
N/A					

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	20%		
Sulfate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	20%		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	20%		

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			Yes
Laboratory Control Sample criteria met?			Yes
Were the Laboratory Method Blank results all < RL?			No
Were the Field Blanks results all < RL?			N/A
Was the ICAL criteria met?			Yes
Was the CCV criteria met?			Yes
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks		**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate					
ICMBW1 030720	Nitrogen	0.048 J	0.2	None	Sample results > RL
Sulfate					
ICMBW1 030720	Sulfate	0.395 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 030720		Nondetect			

ICB/CCB		**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
ICB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.379	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.051	0.2	None	Sample results > RL
CCB	Sulfate	0.381	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.054	0.2	None	Sample results > RL
CCB	Sulfate	0.365	4.0	None	Sample results > RL

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	90-110		
Sulfate				
20030087-001BMS/BMSD (20030087-01)	Acceptable	90-110		
Alkalinity				
17030290-003BMS/MSD	Acceptable	75-125		

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
ICLCSW1 030720	Acceptable	90-110		
Sulfate				
ICLCSW1 030720	Acceptable	90-110		
Alkalinity				
ALKLCSW1 030720	Acceptable	90-110		

ICV		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
March 7 - 21:45	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
March 7 - 21:32	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 00:23	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Methane				
608-181174-1 MS/MSD	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-610346 / 3 / 4	Acceptable			
LCS 680-611124 / 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
Methane				
MB 680-610346 / 8	Nondetect			
MB 680-611124 / 8	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
Methane				
608-181174-1 MS/MSD	Acceptable			

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-610346 / 3 / 4	Acceptable			
LCS 680-611124 / 6 / 7	Acceptable			

ICAL	**RRF**	**%RSD**	**Qualifiers**	**Associated Samples**
3/4/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/10/2020 15:13	Acceptable	Acceptable			
3/10/2020 19:01	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 3.1 and 1.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 12/5/2020

Data Reviewer: Cherie Zakowski Date: 12/8/2021

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditations:IEPA ELAP 100445;ORELAP IL300001;AIHA-LAP, LLC 101160;NVLAP LabCode 101202-0

Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030087 Revision 0

Lab ID: 20030087-001 **Collection Date:** 3/3/2020 9:20:00 AM
Client Sample ID A11-MW001-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	3.5	0.20	*	mg/L	1	3/7/2020
Sulfate	45	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Lab ID: 20030087-002 **Collection Date:** 3/3/2020 1:40:00 PM
Client Sample ID A11-MW005-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	2.5	0.20	*	mg/L	1	3/7/2020
Sulfate	31	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	320	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Lab ID: 20030087-003 **Collection Date:** 3/3/2020 11:00:00 AM
Client Sample ID A11-MW006-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/7/2020
Sulfate	35	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	490	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.3	0.39		mg/L	1	3/16/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030087 Revision 0

Lab ID: 20030087-004 **Collection Date:** 3/3/2020 4:05:00 PM
Client Sample ID A11-MW004B-200303 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	1.1	0.20	*	mg/L	1	3/7/2020
Sulfate	19	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	3/10/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20030133
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 03/04/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number
20030133-001	A11-MW003-200304
20030133-002	A11-MW002-200304
20030133-003	A11-MW007-200304
20030133-004	A11-MW004A-200304
20030133-005	A11-MW004A-200304-D

Data validation was performed in accordance with the specific analytical methods, the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample A11-MW004A-200304**	**Duplicate A11-MW004A-200304-D**	**%RPD**	**Qualifiers**	**Associated Samples**
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20030087-001BMS/BMSD	Acceptable	20%		
Sulfate				
20030087-001BMS/BMSD	Acceptable	20%		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	20%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL /PQL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 030720	Nitrogen	0.048 J	0.2	None	Sample results > RL
Sulfate					
ICMBW1 030720	Sulfate	0.395 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 030720		Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.379	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.051	0.2	None	Sample results > RL
CCB	Sulfate	0.381	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.05	0.2	None	Sample results > RL
CCB	Sulfate	0.359	4.0	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20030087-001BMS/BMSD	Acceptable	90-110		
Sulfate				
20030087-001BMS/BMSD	Acceptable	90-110		
Alkalinity				
20030087-001BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 030720	Acceptable	90-110		
Sulfate				
ICLCSW1 030720	Acceptable	90-110		
Alkalinity				
ALKLCSW1 030720	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
March 7 - 21:45	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
March 7 - 21:32	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 00:23	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
March 8 - 04:02	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	Yes		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			N/A
Laboratory Control Spike Duplicates RPD within limits?	Yes		
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample A11-MW004A-200304	Duplicate A11-MW004A-200304-D	%RPD	Qualifiers	Associated Samples
			Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-611285/ 3 / 4	Acceptable			
LCS 680-611285/ 6 / 7	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			N/A
Laboratory Control Sample criteria met?	Yes		
Were the Laboratory Method Blank results all < RL?	Yes		
Were the Field Blanks results all < RL?			N/A
Was the ICAL criteria met?	Yes		
Was the CCV criteria met?	Yes		
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
Methane				
MB 680-611285/ 8	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-611285/ 3 / 4	Acceptable			
LCS 680-611285/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
3/17/2020 17:11	Acceptable	Acceptable			
3/17/2020 17:37	Acceptable	Acceptable			
3/17/2020 20:35	Acceptable	Acceptable			
3/17/2020 8:38	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.8 and 1.4 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

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Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030133 Revision 0

Lab ID: 20030133-001 **Collection Date:** 3/4/2020 9:05:00 AM
Client Sample ID A11-MW003-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/7/2020
Sulfate	ND	4.0	*	mg/L	1	3/7/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	410	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	12	0.39		mg/L	1	3/17/2020

Lab ID: 20030133-002 **Collection Date:** 3/4/2020 1:35:00 PM
Client Sample ID A11-MW002-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/8/2020
Sulfate	ND	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	16	0.39		mg/L	1	3/17/2020

Lab ID: 20030133-003 **Collection Date:** 3/4/2020 11:20:00 AM
Client Sample ID A11-MW007-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	3/8/2020
Sulfate	24	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	5.5	0.39		mg/L	1	3/17/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: March 30, 2020
Date Printed: March 30, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Semi Annual GW Sampli **Work Order:** 20030133 Revision 0

Lab ID: 20030133-004 **Collection Date:** 3/4/2020 3:20:00 PM
Client Sample ID A11-MW004A-200304 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	0.28	0.20	*	mg/L	1	3/8/2020
Sulfate	36	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	330	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.51	0.00058		mg/L	1	3/17/2020

Lab ID: 20030133-005 **Collection Date:** 3/4/2020 3:20:00 PM
Client Sample ID A11-MW004A-200304-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **3/7/2020**		Analyst: **MD**
Nitrogen, Nitrate (As N)	0.38	0.20	*	mg/L	1	3/8/2020
Sulfate	36	4.0	*	mg/L	1	3/8/2020
Alkalinity	**M2320 B**			Prep Date: **3/7/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	320	200		mg/L CaCO3	1	3/7/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.47	0.00058		mg/L	1	3/17/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

June 2020 Data Validation and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200604
Laboratory: ESAT / TechLaw

Matrix: Water
Collection date: 6/9/2020 & 6/10/2020
Analysis/Methods:

1,4-Dioxane - EPA 522 SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200604-01	A11-TB001-200609	E200604-07	A11-MW003-200610
E200604-02	A11-MW006-200609	E200604-08	A11-MW007-200610
E200604-03	A11-MW005-200609	E200604-09	A11-MW007-200610-D
E200604-04	A11-MW001-200609	E200604-10	A11-MW002-200610
E200604-05	A11-MW004B-200609	E200604-11	A11-MW004A-200610
E200604-06	A11-FB001-200609		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

1,4-Dioxane EPA 520 SIM

Precision:

	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			Yes
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			Yes
Laboratory Control Spike Duplicates RPD within limits?			Yes
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-200610	A11-MW007-200610-D			
	ND	ND	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
E20F013-MS1 / MSD1	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
E20F013-BS1 / BSD1	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:

	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			Yes
Laboratory Control Sample criteria met?			Yes
Were the Laboratory Method Blank results all < RL?			Yes
MRL recoveries within criteria?			Yes
Were the Field Blanks results all < RL?			Yes
Was the ICAL criteria met?			Yes
Was the CCV criteria met?			Yes
Was the Tuning criteria met?			Yes
Were the Surrogate % recoveries within laboratory determined control limits?			Yes
Were the Internal Standard areas within ± 50 - 150%?			Yes

Comments (note deviations):

Blanks	Concentration (µg/L)	MDL /RL	Qualifiers	Associated Samples
E20F013-BLK1	Nondetect			

Field Blank	Concentration	MDL /RL	Qualifiers	Associated Samples
A11-TB001-200609	Nondetect			
A11-FB001-200609	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20F013-MS1 / MSD1	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20F013-BS1 / BSD1	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20F013-MRL1	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
5/ 27 / 2020 - 13:20	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Qualifiers	Associated Samples
ICV				
5/ 27 / 2020 - 13:00	Acceptable	Acceptable		
CCV				
6/ 24 / 2020 - 10:03	Acceptable	Acceptable		
6/ 24 / 2020 - 5:42	Acceptable	Acceptable		

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
	Acceptable			

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 4.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Analysis	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment: Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-TB001-200609 (E200604-01) **Matrix: Water** **Sampled: Jun-09-20 08:00** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.918			*88.8%*		*64-109*	"	"	"

A11-MW006-200609 (E200604-02) **Matrix: Water** **Sampled: Jun-09-20 11:00** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.53**			0.203	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.02			*101%*		*64-109*	"	"	"

A11-MW005-200609 (E200604-03) **Matrix: Water** **Sampled: Jun-09-20 16:15** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.83**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.977			*95.4%*		*64-109*	"	"	"

A11-MW001-200609 (E200604-04) **Matrix: Water** **Sampled: Jun-09-20 08:40** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**14.1**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.09			*106%*		*64-109*	"	"	"

A11-MW004B-200609 (E200604-05) **Matrix: Water** **Sampled: Jun-09-20 13:05** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**11.7**			0.208	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.10			*106%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-FB001-200609 (E200604-06) **Matrix: Water** **Sampled: Jun-09-20 17:30** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.04			*101%*		*64-109*	"	"	"

A11-MW003-200610 (E200604-07) **Matrix: Water** **Sampled: Jun-10-20 08:05** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**9.58**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.03			*100%*		*64-109*	"	"	"

A11-MW007-200610 (E200604-08) **Matrix: Water** **Sampled: Jun-10-20 09:50** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.943			*92.0%*		*64-109*	"	"	"

A11-MW007-200610-D (E200604-09) **Matrix: Water** **Sampled: Jun-10-20 09:50** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.984			*96.1%*		*64-109*	"	"	"

A11-MW002-200610 (E200604-10) **Matrix: Water** **Sampled: Jun-10-20 12:10** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**4.03**			0.207	ug/L	1	E20F013	Jun-23-20	Jun-24-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	1.01			*97.4%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Howard Pham	Jul-16-20 13:56

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW004A-200610 (E200604-11) **Matrix: Water** **Sampled: Jun-10-20 14:25** **Received: Jun-11-20 10:18**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.51**			0.203	ug/L	1	E20F013	Jun-23-20	Jun-24-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.915	*90.0%*	*64-109*	"	"	"

Techlaw Document Controlled Number: 83074-8-33-704-DV-1330
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND AND EMERGENCY MANAGEMENT DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: July 13, 2020

FROM: Allison Harvey, TechLaw Inc.
Contractor, Environmental Services Assistance Team (ESAT)

THROUGH: Michelle Kerr
Region 5 ESAT Contracting Officer's Representative

TO: Data User: CDM Smith
Email Address: grabsjc@cdm.com

This package was requested and reviewed as a Stage 4 Validation Electronic and Manual Deliverable (S4VEM)

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater Contamination (IL)

Case No: 48947 MA No: N/A SDG No: E3YF9

Number and Type of Samples: 11 waters (6 Trace Volatiles/ 5 L/M Volatiles)

Sample Numbers: E3YF9, E3YG0 – E3YG9

Laboratory: Chemtech Consulting Group (CHM) Hrs. for Review:

Following are our findings:

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eleven (11) water samples were shipped to Chemtech Consulting Group (CHM) located in Mountainside, NJ. All samples were collected 06/09-10/2020 and received on 06/11/2020 intact and properly cooled. Six (6) samples; E3YF9 and E3YG0 thru E3YG4, were analyzed for the trace volatile analytes. Five (5) samples; E3YG5 thru E3YG9, were analyzed for the low level volatile analytes. All samples were analyzed according to CLP SOW SOM02.4, [Oct 2016] and reviewed according to the June 2010 Rev 1, March, 2014 Rev 2 QAPPs for Southeast Rockford Groundwater Contamination Site, the Illinois State QAPP, the September 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the Region 5 Organic CLP Validation SOP (DCN 83074-8-33-601-SO-1143.R1).

Samples E3YG1 and E3YG8 were designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Sample E3YF9 was identified as a trip blank. Sample E3YG4 was identified as a field blank. Sample E3YG7 was identified as a field duplicate of sample E3YG6.

Only the qualifications reflected in the EXES Sample Summary report are described in this narrative.

1. PRESERVATION AND HOLDING TIMES

NONE FOUND.

2. GC/MS and GC/ECD INSTRUMENT PERFORMANCE CHECK

NONE FOUND.

3. INITIAL CALIBRATION

NONE FOUND.

4. INITIAL CALIBRATION VERIFICATION

NONE FOUND.

5. CONTINUING CALIBRATION

Method – Volatile Organics

EXES-1209
The following samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detects are qualified as estimated J. Non-detects are qualified as estimated UJ.

E3YG5, E3YG6, E3YG7, E3YG8, E3YG8MS, E3YG8MSD, VBLK85
Toluene

6. BLANKS

Method – Trace Volatiles

The following samples have analyte results reported less than CRQLs. The associated method blank results are less than CRQL. Detects are qualified U. Sample results have been reported at CRQLs.

VHBLK01
Methylene chloride

The following samples have analyte results reported less than CRQLs. The associated trip blank (E3YF9) is less than CRQLs. Detects are qualified U. Sample results have been reported at CRQLs.

E3YG0, E3YG1, E3YG1MS, E3YG2, E3YG4
Acetone

E3YG0, E3YG4
cis-1,2-Dichloroethene

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

Method – Trace Volatiles

EXES-982
The following samples have DMC/surrogate percent recoveries greater than the primary maximum criteria. Detects are qualified as estimated J+. Non-detects are not qualified.

E3YF9
Acetone, 2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone

E3YG1, E3YG1MS, E3YG2, E3YG3, E3YG4
4-Methyl-2-pentanone, 2-Hexanone

E3YG1MSD
4-Methyl-2-pentanone, 2-Hexanone, Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Method – Volatile Organics

EXES-1217
The following matrix spike/matrix spike duplicate samples have percent recoveries less than the expanded minimum criteria. Detects in the unspiked sample are qualified as estimated J. Non-detects in the unspiked sample are qualified as unusable R.

E3YG8MS, E3YG8MSD
Toluene

EXES-559
The relative percent difference (RPD) between the following matrix spike and matrix spike duplicate recoveries is outside criteria. Detects in the unspiked sample are qualified as estimated J. Non-detects in the unspiked sample are not qualified.

E3YG8MS, E3YG8MSD
Toluene

9. CLEANUP PROCEDURES

Not required for these analyses.

10. LABORATORY CONTROL SAMPLE

Not required for these analyses.

11. INTERNAL STANDARD

NONE FOUND.

12. TARGET ANALYTE QUANTITATION LIMIT

Method – Trace Volatiles

EXES-790
The following samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YF9
Acetone, cis-1,2-Dichloroethene

E3YG0
Chloroethane, 1,1-Dichloroethane, Cyclohexane, Trichloroethene, Isopropylbenzene

E3YG1, E3YG1MS, E3GY1MSD
trans-1,2-Dichloroethene, Chloroform, Bromodichloromethane, Tetrachloroethene, Dibromochloromethane

E3YG2
trans-1,2-Dichloroethene

E3YG3
trans-1,2-Dichloroethene, Tetrachloroethene

E3YG4
Carbon disulfide, 2-Butanone

VBLK09
Methylene chloride

Method – Volatile Organics

EXES-790
The following samples have analyte results greater than or equal to method detection limit (MDL) and below contract required quantitation limit (CRQL). Detects are qualified as estimated J.

E3YG5
Chloroethane, 1,1,1-Trichloroethane, 4-Methyl-2-pentanone

E3YG6, E3YG7
Methylcyclohexane, Tetrachloroethene

E3YG8
Vinyl chloride, Acetone, 1,1,1-Trichloroethane, Trichloroethene

E3YG8MS, E3YG8MSD
Vinyl chloride, Acetone, 1,1,1-Trichloroethane, 1,2-Dichlorobenzene

E3YG9
1,1,1-Trichloroethane, Cyclohexane, Trichloroethene, Isopropylbenzene

13. TENTATIVELY IDENTIFIED COMPOUNDS

Not Validated

14. SYSTEM PERFORMANCE

No problems found.

15. FIELD QC SAMPLES

Sample E3YF9 was identified as a trip blank. Sample E3YG4 was identified as a field blank. Sample E3YG7 was identified as a field duplicate of sample E3YG6.

Results are summarized in the following table:

Sample Type:	Trip Blank	Field Blank
Sample #:	A11-TB001-200609	A11-FB001-200609
CLP Sample:	**E3YF9**	**E3YG4**
Location:	A11-TB001	A11-FB001
Collection Date/Time:	6/9/2020 08:00	6/9/2020 17:30
Units:	µg/L	µg/L
Acetone	1.7 J	

Carbon disulfide	ND	0.090 J
cis-1,2-Dichloroethene	0.29 J	
2-Butanone	ND	1.2 J
Associated field samples:	E3YG0, E3YG1 E3YG2, E3YG3, E3YG4	E3YG0, E3YG1, E3YG2, E3YG3

ND = Not Detected.

Sample Type:	Field Sample	Field Duplicate	
Sample #:	A11-MW007-200610	A11-MW007-200610-D	
CLP Sample:	**E3YG6**	**E3YG7**	
Location:	A11-MW007	A11-MW007	
Collection Date/Time:	6/10/2020 9:50	6/10/2020 9:50	RPDs
Units:	µg/L	µg/L	%
Dilution factor:	1.0	1.0	
Methylcyclohexane	2.7 J	2.6 J	3.8
Tetrachloroethene	1.0 J	0.89 J	12
Isopropylbenzene	6.5	6.5	
CLP Sample:	**E3YG6DL**	**E3YG7DL**	
Dilution factor:	100.0	100.0	
Ethylbenzene	820	810	1.2
m,p-Xylene	2600	2600	0.0

'*' – RPD value ≥ 20%.

The detection of analytes with RPDs greater than 20% in the field duplicates are qualified as estimated J. Nondetects are qualified as estimated UJ.

16. SAMPLE RESULTS

The following trace volatile samples have analyte results greater than the upper limit of calibration range. The samples were not re-analyzed at dilution because they are QC samples. Detects are qualified as estimated J.

E3YG8MS, E3YG8MSD
Methylcyclohexane, Toluene, Ethylbenzene, o-Xylene, m,p-Xylene

17. QAPP COMPLIANCE

The analytical package fulfilled the QAPP QC components requirements identified in the Southeast Rockford Groundwater Contamination QAPP.

Case No: 48947 SDG No: E3YF9

Site Name: Southeast Rockford Groundwater Contamination (IL) Laboratory: CHM

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Reviewed by: Allison C. Harvey /Techlaw-ESAT

Date: 9/3/2020

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YF9	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-TB001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 08:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	1.7	J+	ug/L	1.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.29	J	ug/L	0.29	J	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG0	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW006	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 11:00:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.44	J	ug/L	0.44	J	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.3	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.11	J	ug/L	0.11	J	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.28	J	1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.35	J	ug/L	0.35	J	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	2.0		ug/L	2.0		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.14	J	ug/L	0.14	J	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Indane	TIC	0.57	JN	ug/L	0.57	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
n-Butyl ether	TIC	12	JN	ug/L	12	JN	1.0	YES	NV
Total Alkanes	TIC	1.5	BN	ug/L	1.5	BN	1.0	YES	NV
Di-sec-butyl ether	TIC	0.72	JN	ug/L	0.72	JN	1.0	YES	NV
unknown-01	TIC	2.4	J	ug/L	2.4	J	1.0	YES	NV
Pentalene, octahydro-	TIC	0.58	JN	ug/L	0.58	JN	1.0	YES	NV
Ethane, 1-chloro-1,1-difluoro-	TIC	1.7	JN	ug/L	1.7	JN	1.0	YES	NV
4-Octanone, 5-hydroxy-3,6-dimethyl	TIC	1.3	JN	ug/L	1.3	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW005	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	1.1		ug/L	1.1		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	0.87	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.15	J	ug/L	0.15	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.45	J	ug/L	0.45	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.5		ug/L	4.5		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.89		ug/L	0.89		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.40	J	ug/L	0.40	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.18	J	ug/L	0.18	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1MS	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	5.6		ug/L	5.6		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.1	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.45	J	ug/L	0.45	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.4		ug/L	4.4		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Spike	5.6		ug/L	5.6		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Spike	4.7		ug/L	4.7		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.36	J	ug/L	0.36	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.19	J	ug/L	0.19	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG1MSD	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 16:15:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	5.8		ug/L	5.8		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.6		ug/L	6.6		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.48	J	ug/L	0.48	J	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	4.6		ug/L	4.6		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Spike	5.0		ug/L	5.0		1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Spike	5.7		ug/L	5.7		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.38	J	ug/L	0.38	J	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Spike	4.8		ug/L	4.8		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.39	J	ug/L	0.39	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.21	J	ug/L	0.21	J	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Spike	5.0	J+	ug/L	5.0		1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG2	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 08:40:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	1.1	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.17	J	ug/L	0.17	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	7.5		ug/L	7.5		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	8.9		ug/L	8.9		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	2.5		ug/L	2.5		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1.0		ug/L	1.0		1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethane, 1-chloro-1,1-difluoro-	TIC	0.77	JN	ug/L	0.77	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG3	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-MW004B	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 13:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.95		ug/L	0.95		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon disulfide	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.16	J	ug/L	0.16	J	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.3		ug/L	6.3		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	1.3		ug/L	1.3		1.0	YES	S4VEM
2-Butanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.5		ug/L	5.5		1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	1.4		ug/L	1.4		1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	1.6		ug/L	1.6		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.40	J	ug/L	0.40	J	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG4	Method: Trace Volatiles	Matrix: Water	MA Number:
Sample Location: A11-FB001	pH: 1.0	Sample Date: 06/09/2020	Sample Time: 17:30:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Vinyl chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromomethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Acetone	Target	5	U	ug/L	3.0	J	1.0	YES	S4VEM
Carbon disulfide	Target	0.090	J	ug/L	0.090	J	1.0	YES	S4VEM
Methyl Acetate	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylene chloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	0.5	U	ug/L	0.19	J	1.0	YES	S4VEM
2-Butanone	Target	1.2	J	ug/L	1.2	J	1.0	YES	S4VEM
Bromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chloroform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Cyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Benzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Trichloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Methylcyclohexane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromodichloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Toluene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
2-Hexanone	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Dibromochloromethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Chlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Ethylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
o-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
m,p-Xylene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Styrene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Bromoform	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Isopropylbenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	0.50	U	ug/L	0.50	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG5	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW003	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 08:05:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	1.9	J	ug/L	1.9	J	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.9		ug/L	6.9		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.3	J	ug/L	1.3	J	1.0	YES	S4VEM
Cyclohexane	Target	7.8		ug/L	7.8		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	59		ug/L	59		1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	2.2	J	ug/L	2.2	J	1.0	YES	S4VEM
Toluene	Target	7.6	J	ug/L	7.6		1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	430	J	ug/L	430	JD	100.0	YES	S4VEM
o-xylene	Target	5.2		ug/L	5.2		1.0	YES	S4VEM
m,p-Xylene	Target	5100		ug/L	5100	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	45		ug/L	45		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 4-ethyl-1,2-dimethyl-	TIC	13	JN	ug/L	13	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,4,5-tetramethyl-	TIC	9.1	JN	ug/L	9.1	JN	1.0	YES	NV
Benzene, propyl-	TIC	53	JN	ug/L	53	JN	1.0	YES	NV
Benzene, 1,3-diethyl-	TIC	6.0	JN	ug/L	6.0	JN	1.0	YES	NV
p-Cymene	TIC	18	JN	ug/L	18	JN	1.0	YES	NV
Total Alkanes	TIC	120	BN	ug/L	120	BN	1.0	YES	NV
Benzene, 2-ethyl-1,4-dimethyl-	TIC	20	JN	ug/L	20	JN	1.0	YES	NV
Benzaldehyde, 2-methyl-	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Naphthalene, 1,2,3,4-tetrahydro-	TIC	18	JN	ug/L	18	JN	1.0	YES	NV
Benzene, (2-methyl-1-propenyl)-	TIC	27	JN	ug/L	27	JN	1.0	YES	NV
Benzene, 1,2,3,4-tetramethyl-	TIC	20	JN	ug/L	20	JN	1.0	YES	NV
Benzene, (1-methyl-1-butenyl)-	TIC	2.8	JN	ug/L	2.8	JN	1.0	YES	NV
Benzene, 1-methyl-4-propyl-	TIC	14	JN	ug/L	14	JN	1.0	YES	NV
Cyclohexene, 3-methyl-	TIC	3.1	JN	ug/L	3.1	JN	1.0	YES	NV
Benzene, (2-methylpropyl)-	TIC	4.5	JN	ug/L	4.5	JN	1.0	YES	NV
Benzene, 1-methyl-3-(1-methylethyl	TIC	4.2	JN	ug/L	4.2	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	85	JN	ug/L	85	JN	1.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	220	JN	ug/L	220	JN	1.0	YES	NV
Benzeneacetaldehyde, .alpha.-methy	TIC	15	JN	ug/L	15	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	130	JN	ug/L	130	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	54	JN	ug/L	54	JN	1.0	YES	NV
Benzene, 1,2-diethyl-	TIC	23	JN	ug/L	23	JN	1.0	YES	NV
Pentalene, octahydro-	TIC	6.5	JN	ug/L	6.5	JN	1.0	YES	NV
Indan, 1-methyl-	TIC	2.5	JN	ug/L	2.5	JN	1.0	YES	NV
o-Cymene	TIC	25	JN	ug/L	25	JN	1.0	YES	NV
1-Hexadecyne	TIC	2.8	JN	ug/L	2.8	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG6	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 09:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	2.7	J	ug/L	2.7	J	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	820		ug/L	820	D	100.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	2600		ug/L	2600	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.5		ug/L	6.5		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Mesitylene	TIC	24	JN	ug/L	24	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	11	JN	ug/L	11	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG7	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW007	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 09:50:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Cyclohexane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylcyclohexane	Target	2.6	J	ug/L	2.6	J	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	5.0	UJ	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	0.89	J	ug/L	0.89	J	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	810		ug/L	810	D	100.0	YES	S4VEM
o-xylene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
m,p-Xylene	Target	2600		ug/L	2600	D	100.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	6.5		ug/L	6.5		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC	3.5	BN	ug/L	3.5	BN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,4-trimethyl-	TIC	11	JN	ug/L	11	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	23	JN	ug/L	23	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW002	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.4	J	ug/L	4.4	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	2.7	J	ug/L	2.7	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	11		ug/L	11		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.4		ug/L	6.4		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	32		ug/L	32		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Cyclohexane	Target	120		ug/L	120		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	0.86	J	ug/L	0.86	J	1.0	YES	S4VEM
Methylcyclohexane	Target	570	J	ug/L	570	JD	500.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	68000	J	ug/L	68000	D	500.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	6400		ug/L	6400	D	500.0	YES	S4VEM
o-xylene	Target	4900		ug/L	4900	D	500.0	YES	S4VEM
m,p-Xylene	Target	20000		ug/L	20000	D	500.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	98		ug/L	98		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0		ug/L	5.0		1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 1-ethenyl-3-ethyl-	TIC	48	JN	ug/L	48	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, tert-butyl-	TIC	2.6	JN	ug/L	2.6	JN	1.0	YES	NV
Benzene, 2-ethyl-1,4-dimethyl-	TIC	28	JN	ug/L	28	JN	1.0	YES	NV
3-Hexanol, 2,3-dimethyl-	TIC	8.8	JN	ug/L	8.8	JN	1.0	YES	NV
Benzene, 1,2,4,5-tetramethyl-	TIC	39	JN	ug/L	39	JN	1.0	YES	NV
1H-Indene, 2,3-dihydro-4-methyl-	TIC	9.3	JN	ug/L	9.3	JN	1.0	YES	NV
Naphthalene, 1,2,3,4-tetrahydro-	TIC	43	JN	ug/L	43	JN	1.0	YES	NV
Benzene, 1-methyl-3-(1-methylethyl	TIC	33	JN	ug/L	33	JN	1.0	YES	NV
Azulene	TIC	43	JN	ug/L	43	JN	1.0	YES	NV
Benzene, 2-propenyl-	TIC	54	JN	ug/L	54	JN	1.0	YES	NV
Benzene, 1-ethyl-2,3-dimethyl-	TIC	68	JN	ug/L	68	JN	1.0	YES	NV
2-Hexyne, 4-methyl-	TIC	3.6	JN	ug/L	3.6	JN	1.0	YES	NV
Benzeneacetaldehyde, .alpha.-methy	TIC	19	JN	ug/L	19	JN	1.0	YES	NV
Benzene, 1,2,4-trimethyl-	TIC	180	JN	ug/L	180	JN	1.0	YES	NV
n-Butyl ether	TIC	24	JN	ug/L	24	JN	1.0	YES	NV
Benzene, 1,2-diethyl-	TIC	10	JN	ug/L	10	JN	1.0	YES	NV
Benzene, 1,2,3-trimethyl-	TIC	130	JN	ug/L	130	JN	1.0	YES	NV
o-Cymene	TIC	44	JN	ug/L	44	JN	1.0	YES	NV
Benzene, (2-methylpropyl)-	TIC	4.5	JN	ug/L	4.5	JN	1.0	YES	NV
Total Alkanes	TIC	520	BN	ug/L	520	BN	1.0	YES	NV
p-Cymene	TIC	9.7	JN	ug/L	9.7	JN	1.0	YES	NV
Benzene, propyl-	TIC	95	JN	ug/L	95	JN	1.0	YES	NV
Mesitylene	TIC	390	JN	ug/L	390	JN	1.0	YES	NV
4-Heptanone, 2,6-dimethyl-	TIC	49	JN	ug/L	49	JN	1.0	YES	NV
Benzene, 1,2,3,4-tetramethyl-	TIC	22	JN	ug/L	22	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	110	JN	ug/L	110	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	310	JN	ug/L	310	JN	1.0	YES	NV
Benzene, 1-methyl-4-propyl-	TIC	25	JN	ug/L	25	JN	1.0	YES	NV
Pentalene, octahydro-, cis-	TIC	16	JN	ug/L	16	JN	1.0	YES	NV
1H-Indene, octahydro-, cis-	TIC	4.9	JN	ug/L	4.9	JN	1.0	YES	NV
2-Heptanone, 4,6-dimethyl-	TIC	6.2	JN	ug/L	6.2	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8MS	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.2	J	ug/L	4.2	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	50		ug/L	50		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	2.8	J	ug/L	2.8	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	19		ug/L	19		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.1		ug/L	6.1		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	30		ug/L	30		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	0.97	J	ug/L	0.97	J	1.0	YES	S4VEM
Cyclohexane	Target	100		ug/L	100		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Spike	46		ug/L	46		1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Spike	48		ug/L	48		1.0	YES	S4VEM
Methylcyclohexane	Target	590	J	ug/L	590	E	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Spike	7200	J	ug/L	7200	E	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Spike	50		ug/L	50		1.0	YES	S4VEM
Ethylbenzene	Target	2500	J	ug/L	2500	E	1.0	YES	S4VEM
o-xylene	Target	4000	J	ug/L	4000	E	1.0	YES	S4VEM
m,p-Xylene	Target	8700	J	ug/L	8700	E	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	95		ug/L	95		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.9	J	ug/L	4.9	J	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG8MSD	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location:	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 12:10:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	4.2	J	ug/L	4.2	J	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Spike	52		ug/L	52		1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	3.0	J	ug/L	3.0	J	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	21		ug/L	21		1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	6.3		ug/L	6.3		1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	32		ug/L	32		1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Cyclohexane	Target	110		ug/L	110		1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Spike	47		ug/L	47		1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Spike	49		ug/L	49		1.0	YES	S4VEM
Methylcyclohexane	Target	630	J	ug/L	630	E	1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Spike	7500	J	ug/L	7500	E	1.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Spike	52		ug/L	52		1.0	YES	S4VEM
Ethylbenzene	Target	2600	J	ug/L	2600	E	1.0	YES	S4VEM
o-xylene	Target	4300	J	ug/L	4300	E	1.0	YES	S4VEM
m,p-Xylene	Target	8900	J	ug/L	8900	E	1.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	98		ug/L	98		1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	4.6	J	ug/L	4.6	J	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Total Alkanes	TIC		N	ug/L		N	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Sample Number: E3YG9	Method: Volatile Organics	Matrix: Water	MA Number:
Sample Location: A11-MW004A	pH: 1.0	Sample Date: 06/10/2020	Sample Time: 14:25:00
% Moisture:		% Solids: 0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Vinyl chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromomethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichlorofluoromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloro-1,2,2-trifluoroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Acetone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Carbon disulfide	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl Acetate	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methylene chloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
trans-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Methyl tert-butyl Ether	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,2-Dichloroethene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
2-Butanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Bromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chloroform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,1-Trichloroethane	Target	3.7	J	ug/L	3.7	J	1.0	YES	S4VEM
Cyclohexane	Target	0.83	J	ug/L	0.83	J	1.0	YES	S4VEM
Carbon tetrachloride	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Trichloroethene	Target	1.0	J	ug/L	1.0	J	1.0	YES	S4VEM
Methylcyclohexane	Target	21		ug/L	21		1.0	YES	S4VEM
1,2-Dichloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromodichloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
cis-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
4-Methyl-2-pentanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Toluene	Target	52000		ug/L	52000	D	800.0	YES	S4VEM
trans-1,3-Dichloropropene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,1,2-Trichloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Tetrachloroethene	Target	5.3		ug/L	5.3		1.0	YES	S4VEM
2-Hexanone	Target	10	U	ug/L	10	U	1.0	YES	S4VEM
Dibromochloromethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromoethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Chlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Ethylbenzene	Target	330	J	ug/L	330	JD	200.0	YES	S4VEM
o-xylene	Target	71		ug/L	71		1.0	YES	S4VEM
m,p-Xylene	Target	460	J	ug/L	460	JD	200.0	YES	S4VEM
Styrene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Bromoform	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Isopropylbenzene	Target	2.1	J	ug/L	2.1	J	1.0	YES	S4VEM
1,1,2,2-Tetrachloroethane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,3-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,4-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2-Dibromo-3-chloropropane	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,4-trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
1,2,3-Trichlorobenzene	Target	5.0	U	ug/L	5.0	U	1.0	YES	S4VEM
Benzene, 1,2,4,5-tetramethyl-	TIC	3.5	JN	ug/L	3.5	JN	1.0	YES	NV

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 48947/EPW14030/E3YF9** | **Lab Name: Chemtech Consulting Group**

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Benzene, 1,2,3-trimethyl-	TIC	9.6	JN	ug/L	9.6	JN	1.0	YES	NV
Benzene, 1-ethyl-3-methyl-	TIC	4.9	JN	ug/L	4.9	JN	1.0	YES	NV
Benzene, 1-ethyl-2-methyl-	TIC	3.1	JN	ug/L	3.1	JN	1.0	YES	NV
Total Alkanes	TIC	110	BN	ug/L	110	BN	1.0	YES	NV
Benzene, propyl-	TIC	3.6	JN	ug/L	3.6	JN	1.0	YES	NV
Mesitylene	TIC	3.3	JN	ug/L	3.3	JN	1.0	YES	NV
Benzene, 4-ethyl-1,2-dimethyl-	TIC	3.3	JN	ug/L	3.3	JN	1.0	YES	NV

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20060290
Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 06/09/20
Analysis/Methods:

Wet Chemistry:
Nitrogen, Nitrate EPA 300.0
Sulfate EPA 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

STAT Lab ID	Sample Number
20060290-001	A11-MW001-200609
20060290-002	A11-MW004B-200609
20060290-003	A11-MW005-200609
20060290-004	A11-MW006-200609

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	20%		
Sulfate				
20060338-003BMS/BMSD	Acceptable	20%		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	20%		

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL / RL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 061120	Nitrogen	0.052 J	0.2	None	Sample results nondetect or > RL
Sulfate					
ICMBW1 061120	Sulfate	0.377 J	4.0	None	Sample results > RL
Alkalinity					
ALKMBW1 061420		Nondetect		None	Sample results > RL

ICB/CCB		Concentration	MDL / RL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.058	0.2	None	Sample results nondetect or > RL
ICB	Sulfate	0.363	4.0	None	Sample results > RL
CCB	Nitrogen, Nitrate	0.055	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.354	4.0	None	Sample results > RL

Field Blank	Concentration	MDL / RL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	90-110		
Sulfate				
20060338-003BMS/BMSD	Acceptable	90-110		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 061120	Acceptable	90-110		
Sulfate				
ICLCSW1 061120	Acceptable	90-110		
Alkalinity				
ALKLCSW1 061420	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 9:14	Nitrogen, Nitrate	73.04	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 '11:52	Nitrogen, Nitrate	76.88	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			N/A
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	Yes		
Laboratory Control Spike Duplicates RPD within limits?	Yes		
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
N/A					

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
680-184999-3 MS / MSD (20060290-003)	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-623376/ 3 / 4	Acceptable			
LCS 680-623376/ 6 / 7	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	Yes		
Laboratory Control Sample criteria met?	Yes		
Were the Laboratory Method Blank results all < RL?	Yes		
Were the Field Blanks results all < RL?			N/A
Was the ICAL criteria met?	Yes		
Was the CCV criteria met?	Yes		
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
Methane				
MB 680-623376/ 8	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
680-184999-3 MS / MSD (20060290-003)	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Methane				
LCS 680-623376/ 3 / 4	Acceptable			
LCS 680-623376/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
6/22/2020 15:34	Acceptable	Acceptable			
6/22/2020 15:47	Acceptable	Acceptable			
6/22/2020 18:44	Acceptable	Acceptable			
6/22/2020 18:57	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 4.6 and 2.1° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/8/2021

Data Reviewer: Cherie Zakowski Date: 1/12/2021

STAT Analysis Corporation
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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060290 Revision 0

Lab ID: 20060290-001 **Collection Date:** 6/9/2020 8:40:00 AM
Client Sample ID A11-MW001-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	1.8	0.20	*	mg/L	1	6/11/2020
Sulfate	25	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	6/22/2020

Lab ID: 20060290-002 **Collection Date:** 6/9/2020 1:05:00 PM
Client Sample ID A11-MW004B-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	1.1	0.20	*	mg/L	1	6/11/2020
Sulfate	19	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	340	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.035	0.00058		mg/L	1	6/22/2020

Lab ID: 20060290-003 **Collection Date:** 6/9/2020 4:15:00 PM
Client Sample ID A11-MW005-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	2.7	0.20	*	mg/L	1	6/11/2020
Sulfate	33	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	ND	0.00058		mg/L	1	6/22/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060290 Revision 0

Lab ID: 20060290-004 **Collection Date:** 6/9/2020 11:00:00 AM
Client Sample ID A11-MW006-200609 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/11/2020
Sulfate	7.1	4.0	*	mg/L	1	6/11/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	460	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.8	0.39		mg/L	1	6/22/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20060338

Laboratory: STAT Analysis Corporation / Eurofins Test America

Matrix: Groundwater
Collection date: 06/10/20
Analysis/Methods:

Wet Chemistry:
Anions 300.0
Alkalinity M2320 B
Dissolved Gases - Methane - RSK-175

Samples in SDG:

STAT Lab ID	Sample Number
20060338-001	A11-MW002-200610
20060338-002	A11-MW003-200610
20060338-003	A11-MW004A-200610
20060338-004	A11-MW007-200610
20060338-005	A11-MW007-200610-D

Data validation was performed in accordance with the specific analytical methods, National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-200610	A11-MW007-200610-D	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	20%		
Sulfate				
20060338-003BMS/BMSD	Acceptable	20%		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	20%		

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**No**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks		Concentration	MDL / RL	Qualifiers	Associated Samples
Nitrogen, Nitrate					
ICMBW1 061120	Nitrogen	0.052 J	0.2		Sample results nondetect or > RL
Sulfate					
ICMBW1 061120	Sulfate	0.377 J	4.0	None	Sample results nondetect or > RL
Alkalinity					
ALKMBW1 061420		Nondetect			Sample results > RL

ICB/CCB		Concentration	MDL / RL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	0.058	0.2	None	Sample results nondetect or > RL
ICB	Sulfate	0.363	4.0	None	
CCB	Nitrogen, Nitrate	0.072	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.358	4.0	None	
CCB	Nitrogen, Nitrate	0.076	0.2	None	Sample results nondetect or > RL
CCB	Sulfate	0.361	4.0	None	

Field Blank	Concentration	MDL / RL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
Nitrogen, Nitrate				
20060338-003BMS/BMSD	Acceptable	90-110		
Sulfate				
20060338-003BMS/BMSD	Acceptable	90-110		
Alkalinity				
20060290-003BMS/BMSD	Acceptable	75-125		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
Nitrogen, Nitrate				
ICLCSW1 061120	Acceptable	90-110		
Sulfate				
ICLCSW1 061120	Acceptable	90-110		
Alkalinity				
ALKLCSW1 061420	Acceptable	80-120		

ICV		%R	Limits	Qualifiers	Associated Samples
6/11/2020 9:14	Nitrogen, Nitrate	73.04	90-110	**J / UJ**	**All samples**
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
6/12/2020 '2:31	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			
6/12/2020 '5:09	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200610	A11-MW007-200610-D	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-623522/ 3 / 4	Acceptable			
LCS 680-623522/ 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /RL**	**Qualifiers**	**Associated Samples**
Methane				
MB 680-623522/ 8	Nondetect			

Field Blank	**Concentration**	**MDL /RL**	**Qualifiers**	**Associated Samples**
N/A				

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%R**	**Limits**	**Qualifiers**	**Associated Samples**
Methane				
LCS 680-623522/ 3 / 4	Acceptable			
LCS 680-623522/ 6 / 7	Acceptable			

ICAL	**RRF**	**%RSD**	**Qualifiers**	**Associated Samples**
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

CCV	RRF	%D	Limits	Qualifiers	Associated Samples
6/23/2020 13:44	Acceptable	Acceptable			
6/23/2020 14:35	Acceptable	Acceptable			
6/23/2020 17:25	Acceptable	Acceptable			
6/23/2020 17:38	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 2.5 and 5.2° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/6/2021

Data Reviewer: Cherie Zakowski Date: 1/8/2021

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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060338 Revision 0

Lab ID: 20060338-001 **Collection Date:** 6/10/2020 12:10:00 PM
Client Sample ID A11-MW002-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	ND	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	400	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	19	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-002 **Collection Date:** 6/10/2020 8:05:00 AM
Client Sample ID A11-MW003-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	9.0	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	380	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	6.7	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-003 **Collection Date:** 6/10/2020 2:25:00 PM
Client Sample ID A11-MW004A-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	0.65	0.20	*	mg/L	1	6/12/2020
Sulfate	35	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	350	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	0.19	0.00058		mg/L	1	6/23/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: July 06, 2020
Date Printed: July 06, 2020

ANALYTICAL RESULTS

Client: CDM Smith Inc.
Project: 239446, SE Rockford Area 11 Quarterly GW Sampling, **Work Order:** 20060338 Revision 0

Lab ID: 20060338-004 **Collection Date:** 6/10/2020 9:50:00 AM
Client Sample ID A11-MW007-200610 **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	29	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	370	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.8	0.39		mg/L	1	6/23/2020

Lab ID: 20060338-005 **Collection Date:** 6/10/2020 9:50:00 AM
Client Sample ID A11-MW007-200610-D **Matrix:** Aqueous

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Anions by Ion Chromatography	**E300.0**			Prep Date: **6/11/2020**		Analyst: **CAB**
Nitrogen, Nitrate (As N)	ND	0.20	*	mg/L	1	6/12/2020
Sulfate	28	4.0	*	mg/L	1	6/12/2020
Alkalinity	**M2320 B**			Prep Date: **6/14/2020**		Analyst: **MD**
Alkalinity, Total (As CaCO3)	360	20		mg/L CaCO3	1	6/14/2020
Dissolved Gases in Water	**RSKSOP-175**			Prep Date:		Analyst: **SUB**
Methane	3.9	0.39		mg/L	1	6/23/2020

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

September 2020 Data Validation and Data Packages

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006__ 2009007
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 9/9/2020 & 9/10/2020
Analysis/Methods:
Wet Chemistry:
Alkalinity M2320 B

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-08	A11-FB001-200909	2009007-01	A11-MW002-200910
2009006-09	A11-MW001-200909	2009007-02	A11-MW007-200910
2009006-10	A11-MW004B-200909	2009007-03	A11-MW004A-200910
2009006-11	A11-MW006-200909	2009007-04	A11-MW007-200910-D
2009006-12	A11-MW005-200909	2009007-05	A11-MW003-200910-D
2009006-13	A11-MW130A-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Alkalinity 2320B)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20I015-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**N/A**
Was the CCV criteria met?			**N/A**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20I015-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
B20I015-SRM1	Acceptable			

ICV	%R	Limits	Qualifiers	Associated Samples
N/A				

CCV	%R	Limits	Qualifiers	Associated Samples
N/A				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 and 3.8° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Alkalinity by SM 2320B
US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-08) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**U**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW001-200909 (2009006-09) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW004B-200909 (2009006-10) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW006-200909 (2009006-11) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**440**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW005-200909 (2009006-12) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**370**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW130A-200909 (2009006-13) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**330**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW002-200910 (2009007-01) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**420**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW007-200910 (2009007-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**530**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Alkalinity by SM 2320B

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-03) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW007-200910-D (2009007-04) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**530**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

A11-MW003-200910-D (2009007-05) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**370**			20	mg CaCO3/L	1	B20I015	Sep-15-20	Sep-15-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-19-20 10:41

Notes and Definitions

*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 680-188662
Laboratory: Eurofins Test America

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
680-188662-1	A11-MW006-200909	680-188662-7	A11-MW003-200910
680-188662-2	A11-MW130A-200909	680-188662-8	A11-MW007-200910
680-188662-3	A11-MW005-200909	680-188662-9	A11-MW007-200910-D
680-188662-4	A11-MW001-200909	680-188662-10	A11-MW002-200910
680-188662-5	A11-MW004B-200909	680-188662-11	A11-MW004A-200910
680-188662-6	A11-FB01-200909	680-188662-12	A11-TB001-200909

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?	**Yes**		
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?	**Yes**		
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
LCS 680-635562/ 3 / 4	Acceptable			
LCS 680-635562/ 6 / 7	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?	**Yes**		
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?		**No**	
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration (mg/L)**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
MB 680-635562/ 8	Nondetect			

Field Blank		Concentration	MDL /PQL	Qualifiers	Associated Samples
A11-FB01-200909	Methane	0.62	0.29 / 0.58	U-RL	680-188662-2
A11-TB001-200909	Methane	0.64	0.29 / 0.58	U-RL	680-188662-2

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
LCS 680-635562/ 3 / 4	Acceptable			
LCS 680-635562/ 6 / 7	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
3/04/2020 11:29	Acceptable	Acceptable			
CCV					
09/23/2020 10:40	Acceptable	Acceptable			
09/23/2020 11:19	Acceptable	Acceptable			
09/23/2020 15:15	Acceptable	Acceptable			
09/23/2020 15:28	Acceptable	Acceptable			
09/23/2020 17:19	Acceptable	Acceptable			
09/23/2020 17:32	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)		No	
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 17.9° C.

Preservation		Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Methane	17.9	0 - 6 ° C	J /UJ	All samples

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	**Yes**	**No**	**N/A**
Are MDLs present and reported?	**Yes**		
Do the reporting limits meet project requirements?	**Yes**		

Comments (note deviations):

Comment:

As noted by the laboratory, samples were received properly preserved on ice and in good condition, however, water was present in the cooler, indicating melted ice.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/22/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Detection Summary

Client: CDM Smith, Inc.
Job ID: 680-188662-1
Project/Site: Methane Analysis - SE Rockford Area 11

Client Sample ID: A11-MW006-200909 — Lab Sample ID: 680-188662-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	4100		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW130A-200909 — Lab Sample ID: 680-188662-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.57	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW005-200909 — Lab Sample ID: 680-188662-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.94		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW001-200909 — Lab Sample ID: 680-188662-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.82		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004B-200909 — Lab Sample ID: 680-188662-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	27		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-FB01-200909 — Lab Sample ID: 680-188662-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.62		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW003-200910 — Lab Sample ID: 680-188662-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	3500		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-200910 — Lab Sample ID: 680-188662-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	25000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-200910-D — Lab Sample ID: 680-188662-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	21000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW002-200910 — Lab Sample ID: 680-188662-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	26000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004A-200910 — Lab Sample ID: 680-188662-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	160		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-TB001-200909 — Lab Sample ID: 680-188662-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.64		0.58	0.29	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: A11-MW006-200909 — Lab Sample ID: 680-188662-1

Date Collected: 09/09/20 11:45 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	4100		390	39	ug/L			09/23/20 13:06	1

Client Sample ID: A11-MW130A-200909 — Lab Sample ID: 680-188662-2

Date Collected: 09/09/20 09:55 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.57	J	0.58	0.29	ug/L			09/23/20 13:19	1

Client Sample ID: A11-MW005-200909 — Lab Sample ID: 680-188662-3

Date Collected: 09/09/20 13:40 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.94		0.58	0.29	ug/L			09/23/20 13:32	1

Client Sample ID: A11-MW001-200909 — Lab Sample ID: 680-188662-4

Date Collected: 09/09/20 16:25 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.82		0.58	0.29	ug/L			09/23/20 13:45	1

Client Sample ID: A11-MW004B-200909 — Lab Sample ID: 680-188662-5

Date Collected: 09/09/20 16:30 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	27		0.58	0.29	ug/L			09/23/20 13:58	1

Client Sample ID: A11-FB01-200909 — Lab Sample ID: 680-188662-6

Date Collected: 09/09/20 18:00 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.62		0.58	0.29	ug/L			09/23/20 14:11	1

Client Sample ID: A11-MW003-200910 — Lab Sample ID: 680-188662-7

Date Collected: 09/10/20 08:45 — **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	3500		390	39	ug/L			09/23/20 16:01	1

Client Sample ID: A11-MW007-200910 — Lab Sample ID: 680-188662-8

Date Collected: 09/10/20 10:55 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	25000		390	39	ug/L			09/23/20 14:24	1

Client Sample ID: A11-MW007-200910-D — Lab Sample ID: 680-188662-9

Date Collected: 09/10/20 10:55 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	21000		390	39	ug/L			09/23/20 14:37	1

Client Sample ID: A11-MW002-200910 — Lab Sample ID: 680-188662-10

Date Collected: 09/10/20 13:05 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	26000		390	39	ug/L			09/23/20 14:49	1

Client Sample ID: A11-MW004A-200910 — Lab Sample ID: 680-188662-11

Date Collected: 09/10/20 15:50 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	160		0.58	0.29	ug/L			09/23/20 15:02	1

Client Sample ID: A11-TB001-200909 — Lab Sample ID: 680-188662-12

Date Collected: 09/09/20 08:00 **Matrix: Water**
Date Received: 09/14/20 08:50

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.64		0.58	0.29	ug/L			09/23/20 15:48	1

Default Detection Limits

Client: CDM Smith, Inc.
Job ID: 680-188662-1
Project/Site: Methane Analysis - SE Rockford Area 11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units
Methane	0.58	0.29	ug/L
Methane (TCD)	390	39	ug/L

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: E200903
Laboratory: ESAT / Tech Law

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

1,4-Dioxane - SW-846 8000D SIM

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
E200901-01	A11-FB001-200909	E200902-01	A11-MW004A-200910
E200901-02	A11-MW001-200909	E200902-02	A11-MW007-200910-D
E200901-03	A11-MW004B-200909	E200902-03	A11-MW007-200910
E200901-04	A11-MW005-200909	E200902-04	A11-MW003-200910
E200901-05	A11-MW006-200909	E200902-05	A11-TB002-200910
E200901-06	A11-MW130A-200909	E200902-06	A11-MW002-200910
E200901-07	A11-TB001-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**Yes**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample A11-MW007-200910**	**Duplicate A11-MW007-200910-D**	**%RPD**	**Qualifiers**	**Associated Samples**
1,4-Dioxane	ND	ND			

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
E20I001-MS1 / MSD1 (E200901-04)	Acceptable			

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20I001-BS1 / BSD1	Acceptable			

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**No**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**Yes**
Were the Surrogate % recoveries within laboratory determined control limits?			**Yes**
Were the Internal Standard areas within ± 50 - 150%?			**Yes**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20I001-BLK1	Nondetect			

Field Blank	Analyte	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	1,4-Dioxane	7.81	0.207	None	Sample results nondetect or > RL
A11-TB001-200909		Nondetect			
A11-TB002-200910		Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
	Acceptable			

MS/MSD		%R	Limits (%)	Qualifiers	Associated Samples
E20I001-MS1 / MSD1					
(E200901-04)	1,4-Dioxane	125 / 134	64-112	J	**E200901-04**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20I001-BS1 / BSD1	Acceptable			

ICAL	RRF	%RSD	Limits	Qualifiers	Associated Samples
May 27, 2020	Acceptable	Acceptable			

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
5/27/2020 1:00	Acceptable	Acceptable			
CCV					
9/21/2020 11:50	Acceptable	Acceptable			
9/21/2020 20:35	Acceptable	Acceptable			

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
E20I001-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 & 0.9 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	**Yes No N/A**
Are all data in this SDG usable?	**Yes**
Comments (note deviations):	

Sensitivity:	**Yes No N/A**
Are MDLs present and reported?	**Yes**
Do the reporting limits meet project requirements?	**Yes**
Comments (note deviations):	

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *5/1/2021*

Data Reviewer: Cherie Zakowski Date: 5/5/2021

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS
TechLaw - ESAT Contract

A11-FB001-200909 (E200901-01) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.81**			0.207	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.845			*81.8%*		*64-109*	"	"	"

A11-MW001-200909 (E200901-02) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.839			*81.9%*		*64-109*	"	"	"

A11-MW004B-200909 (E200901-03) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.86**			0.207	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.779			*75.4%*		*64-109*	"	"	"

A11-MW005-200909 (E200901-04) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.18**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.801			*78.2%*		*64-109*	"	"	"

A11-MW006-200909 (E200901-05) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**8.42**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.841			*82.7%*		*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS

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A11-MW130A-200909 (E200901-06) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**6.10**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.824	*80.4%*	*64-109*	"	"	"

A11-TB001-200909 (E200901-07) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:40**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.208	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.964	*92.6%*	*64-109*	"	"	"

A11-MW004A-200910 (E200902-01) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**1.09**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.737	*72.5%*	*64-109*	"	"	"

A11-MW007-200910-D (E200902-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.935	*92.0%*	*64-109*	"	"	"

A11-MW007-200910 (E200902-03) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.212	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.860	*81.2%*	*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS

TechLaw - ESAT Contract

A11-MW003-200910 (E200902-04) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**7.23**			0.205	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.884	*86.3%*	*64-109*	"	"	"

A11-TB002-200910 (E200902-05) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**U**			0.203	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.941	*92.6%*	*64-109*	"	"	"

A11-MW002-200910 (E200902-06) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:44**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dioxane	**2.90**			0.214	ug/L	1	E20I001	Sep-18-20	Sep-21-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
1,4-Dioxane-d8	0.991	*92.7%*	*64-109*	"	"	"

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Superfund, US EPA Region 5	Project: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Michelle Kerr	Oct-14-20 10:13

1,4-Dioxane by GC-MS - Quality Control
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Batch E20I001 - EPA 522

Blank (E20I001-BLK1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**U**			0.200	ug/L						
Surrogate: 1,4-Dioxane-d8	*0.796*				"	*1.00*		*79.6%*	*64-109*		

LCS (E20I001-BS1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.799**			0.200	ug/L	1.00		79.9%	70-106		
Surrogate: 1,4-Dioxane-d8	*0.814*				"	*1.00*		*81.4%*	*64-109*		

LCS Dup (E20I001-BSD1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.794**			0.200	ug/L	1.00		79.4%	70-106	0.552	17
Surrogate: 1,4-Dioxane-d8	*0.807*				"	*1.00*		*80.7%*	*64-109*		

MRL Check (E20I001-MRL1) — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**0.132**	J		0.200	ug/L	0.200		66.2%	49-131		
Surrogate: 1,4-Dioxane-d8	*0.796*				"	*1.00*		*79.6%*	*64-109*		

Matrix Spike (E20I001-MS1) — Source: E200901-04 — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**9.45**	Q		0.203	ug/L	1.02	8.18	125%	64-112		
Surrogate: 1,4-Dioxane-d8	*0.862*				"	*1.02*		*84.8%*	*64-109*		

Matrix Spike Dup (E20I001-MSD1) — Source: E200901-04 — Prepared: Sep-18-20 Analyzed: Sep-21-20

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,4-Dioxane	**9.55**	Q		0.205	ug/L	1.02	8.18	134%	64-112	6.72	12
Surrogate: 1,4-Dioxane-d8	*0.895*				"	*1.02*		*87.4%*	*64-109*		

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Superfund, US EPA Region 5	Project:	SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION	
77 West Jackson Boulevard	Project Number:	ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager:	Michelle Kerr	Oct-14-20 10:13

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 09/09/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-08	A11-FB001-200909	2009006-11	A11-MW006-200909
2009006-09	A11-MW001-200909	2009006-12	A11-MW005-200909
2009006-10	A11-MW004B-200909	2009006-13	A11-MW130A-200909

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20I011-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)		**No**	
Laboratory Control Sample criteria met?	**Yes**		
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20I011-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.04	0.1 / 0.12	None	Sample results > RL
CCB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.04	0.1 / 0.12	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-200909	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20I011-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	69	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20I011-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20I011-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?	**Yes**		

Comments (note deviations): The cooler temperatures were 1.1 and 3.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: **Yes No N/A**

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): **Yes No N/A**

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: **Yes No N/A**

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/20/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 14:18

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-08) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW001-200909 (2009006-09) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**28.9**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**11.3**			0.12	"	"	"	"	"

A11-MW004B-200909 (2009006-10) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**18.8**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**5.20**			0.12	"	"	"	"	"

A11-MW006-200909 (2009006-11) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**5.02**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW005-200909 (2009006-12) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**25.2**	(MS), L		0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**9.53**			0.12	"	"	"	"	"

A11-MW130A-200909 (2009006-13) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**17.5**			0.12	mg/L	1	B20I011	Sep-10-20	Sep-10-20
Nitrate - NO3	**5.91**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 14:18

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
(MS)	Matrix spike recovery criteria not met for this analyte
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2009006 / 2009007
Laboratory: ESAT

Matrix: Groundwater
Collection date: 09/09/2020 & 09/10/2020
Analysis/Methods:

Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2009006-01	A11-TB001-200909	2009007-06	A11-MW007-200910
2009006-02	A11-MW004B-200909	2009007-07	A11-TB002-200910
2009006-03	A11-MW005-200909	2009007-08	A11-MW007-200910-D
2009006-04	A11-MW006-200909	2009007-09	A11-MW002-200910
2009006-05	A11-MW130A-200909	2009007-10	A11-MW004A-200910
2009006-06	A11-MW001-200909	2009007-11	A11-MW003-200910
2009006-07	A11-FB001-200909		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**Yes**
Laboratory Control Spike Duplicates RPD within limits?			**No**
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-200910	**A11-MW007-200910-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
B20I010-MS1 / MSD1 (2009006-03RE1)	Acceptable			

LCS/LCSD		**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20I010-BS1 / BSD1		Acceptable			
B20I012-BS1/ BSD1	2,2-Dichloropropane	40.1	20	**J****	**2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08**
	Toluene	27.5	20	**J****	
B20I014-BS1 / BSD1	2,2-Dichloropropane	68.6	20	**J****	**2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-10RE2 through 2009007-11RE2**

**Qualification required for detected results only - associated results nondetect - no qualification required

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?		**No**	
Was the CCV criteria met?		**No**	
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?	**Yes**		

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20I010-BLK1	Nondetect			
B20I010-BLK2	Nondetect			
B20I012-BLK1	Nondetect			
B20I014-BLK1	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-TB001-200909	Nondetect			
A11-FB001-200909	Nondetect			
A11-TB002-200910	Nondetect			

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20I010-MS1 / MSD1 (2009006-03RE1)	Acceptable			

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20I010-BS1 / BSD1		Acceptable			
B20I012-BS1/ BSD1	Toluene	100 / 132	70-130	**J****	**2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08**
B20I014-BS1 / BSD1	Dichlorodifluoromethane	59.9 / 60.1	70-130	**J / UJ**	**2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-10RE2 through 2009007-11RE2**
	2,2-Dichloropropane	99 / 48.5	70-130	**J / UJ**	
B20I014-BS2	Dichlorodifluoromethane	64.8	70-130	**J / UJ**	**2009007-08RE1, 2009007-09RE2**
	2,2-Dichloropropane	64.8	70-130	**J / UJ**	

**Qualification required for detected results only - associated results nondetect - no qualification required

ICAL		**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
9/10/2020	Dichlorodifluoromethane	Acceptable	33.61	25	**J****	**All samples**
	Vinyl Chloride	Acceptable	21.97	20	**J****	**All samples**
	1,1-Dichloroethene	Acceptable	21.3	20	**J****	**All samples**
	1,1,1-Trichloroethane	Acceptable	20.64	20	**J**	**All samples**
	Carbon Tetrachloride	Acceptable	26.3	20	**J****	**All samples**
	Tetrachloroethene	Acceptable	20.48	20	**J****	**All samples**
	2-Hexanone	Acceptable	48.57	40	**J****	**All samples**

**Qualification required for detected results only - associated results nondetect - no qualification required

ICV / CCV		RRF	%D	Limits	Qualifiers	Associated Samples
ICV						
9/10/2020 2:17		Acceptable	Acceptable			
CCV						
9/10/2020 1:49	Vinyl Chloride	Acceptable	43.7	25	J / UJ	2009006-01, 2009006-07, 2009006-03RE1
	Chloroethane	Acceptable	32.8	25	J / UJ	
	1,1-Dichloroethene	Acceptable	26.9	20	J / UJ	
	trans-1,2-Dichloroethene	Acceptable	25.7	20	J / UJ	
	1,1,1-Trichloroethane	Acceptable	43.5	25	J / UJ	
	Trichloroethene	Acceptable	25.1	20	J / UJ	
	Tetrachloroethene	Acceptable	30.7	20	J / UJ	
	Isopropylbenzene	Acceptable	25.1	25	J / UJ	2009006-01, 2009006-07, 2009006-03RE1
	1,2-Dibromo-3-chloropropane	Acceptable	58,5	30	J / UJ	
9/10/2020 8:38		Acceptable	Acceptable			
9/11/2020 9:55		Acceptable	Acceptable			
9/11/2020 7:06	Toluene	Acceptable	32.1	25	J / UJ	2009006-02RE1, 2009006-04RE1 through 2009006-06RE1, 2009007-06 through 2009007-08
9/15/2020 11:03	Dichlorodifluoromethane	Acceptable	40.1	40	J / UJ	2009007-06RE1, 2009007-09RE1 through 2009007-11RE1, 2009007-11RE2, 2009007-10RE2
9/15/2020 11:59		Acceptable	Acceptable			
9/16/2020 8:33	trans-1,3-Dichloropropene	Acceptable	21	20	J / UJ	2009007-08RE1, 2009007-09RE2

Tune
Acceptable

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20I010-MRL1	Acceptable			

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperatures were 1.1 & 3.8 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	**Yes**	**No**	**N/A**
Are MDLs present and reported?	**Yes**		
Do the reporting limits meet project requirements?	**Yes**		

Comments (note deviations):

Comment:

As stated in the case narrative, all field samples were run at a 50x screening dilution and subsequent dilutions followed. Analytes are reported from the lowest sample dilution in which they were detected within the calibration range and reporting limits are raised accordingly.

As stated in the case narrative, as a result of the high concentrations of toluene, ethylbenzene, and m+p-xylene present in numerous field samples, carryover occurred in several instances in the project

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 1/21/2021

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200909 (2009006-01) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-200909 (2009006-01) **Matrix: Water** **Sampled: Sep-09-20 07:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.76	*97.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.97	*98.9%*	*84-122*	"	"	"
Toluene-d8	9.68	*96.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.66	*96.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200909 (2009006-02RE1) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.34**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**4.93**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-200909 (2009006-02RE1) **Matrix: Water** **Sampled: Sep-09-20 16:30** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.96	*99.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	9.85	*98.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.74	*97.4%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200909 (2009006-03RE1) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**9.11**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.56**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-200909 (2009006-03RE1) **Matrix: Water** **Sampled: Sep-09-20 13:40** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*102%*	*84-122*	"	"	"
Toluene-d8	9.66	*96.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.72	*97.2%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200909 (2009006-04RE1) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.28**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-200909 (2009006-04RE1) **Matrix: Water** **Sampled: Sep-09-20 11:45** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.3	*102%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.98	*99.0%*	*84-122*	"	"	"
Toluene-d8	9.77	*97.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.66	*96.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-200909 (2009006-05RE1) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.11**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**3.51**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-200909 (2009006-05RE1) **Matrix: Water** **Sampled: Sep-09-20 09:55** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.79	*97.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.94	*89.4%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200909 (2009006-06RE1) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.16**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**7.58**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**2.41**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-200909 (2009006-06RE1) **Matrix: Water** **Sampled: Sep-09-20 16:25** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.77	*97.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.65	*96.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.70	*97.0%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-07) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-200909 (2009006-07) **Matrix: Water** **Sampled: Sep-09-20 18:00** **Received: Sep-10-20 10:05**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20I010	Sep-10-20	Sep-10-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.97	*98.9%*	*84-122*	"	"	"
Toluene-d8	9.90	*99.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.50	*95.0%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**2630**			100	ug/L	50	B20I012	Sep-11-20	Sep-11-20
m+p-Xylene	**7600**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.60	*95.4%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.50	*95.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.92	*99.2%*	*84-108*	"	"	"

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibromomethane	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**86.1**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**82.4**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**11.1**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**53.5**			10.0	"	"	"	"	"
sec-Butylbenzene	**10.8**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**11.3**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**11.4**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910 (2009007-06RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.74	*96.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.50	*95.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.94	*99.4%*	*84-108*	"	"	"

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), J		2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
Chloromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		2.00	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-200910 (2009007-07) **Matrix: Water** **Sampled: Sep-10-20 08:00** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			2.00	ug/L	1	B20I012	Sep-11-20	Sep-11-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.70	*96.4%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.62	*96.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.55	*95.5%*	*84-108*	"	"	"

A11-MW007-200910-D (2009007-08) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**2680**			100	ug/L	50	B20I012	Sep-11-20	Sep-11-20
m+p-Xylene	**7920**			200	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.92	*98.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.93	*98.5%*	*84-122*	"	"	"
Toluene-d8	9.75	*97.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.79	*97.9%*	*84-108*	"	"	"

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,2-Dichloroethene	**U**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**89.1**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**84.7**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**11.6**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-200910-D (2009007-08RE1) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	**55.7**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-16-20
sec-Butylbenzene	**11.3**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**12.4**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**13.2**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.84	*97.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3	*102%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.0	*100%*	*84-108*	"	"	"

A11-MW002-200910 (2009007-09RE1) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**39300**			1600	ug/L	800	B20I014	Sep-15-20	Sep-15-20
Ethylbenzene	**8260**			1600	"	"	"	"	"
m+p-Xylene	**26000**			3200	"	"	"	"	"
o-Xylene	**6820**			1600	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.62	*95.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.94	*98.6%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.48	*94.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-09RE2) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		50.0	ug/L	25	B20I014	Sep-15-20	Sep-16-20
Chloromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-09RE2) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-16-20
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**90.0**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**129**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**202**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**622**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**55.2**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.36	*93.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	9.73	*97.3%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.71	*97.1%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE1) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**42600**			1000	ug/L	500	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.68	*96.3%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.69	*96.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	8.91	*89.1%*	*84-108*	"	"	"

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		50.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromodichloromethane	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**365**			50.0	"	"	"	"	"
m+p-Xylene	**538**			100	"	"	"	"	"
o-Xylene	**66.6**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**U**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-200910 (2009007-10RE2) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			50.0	ug/L	25	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.35	*92.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*101%*	*84-122*	"	"	"
Toluene-d8	9.49	*94.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.68	*96.8%*	*84-108*	"	"	"

A11-MW003-200910 (2009007-11RE1) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
m+p-Xylene	**2430**			100	ug/L	25	B20I014	Sep-15-20	Sep-15-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.95	*98.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.44	*94.4%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.63	*96.3%*	*84-108*	"	"	"

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**	(ICAL), (LCS), J		10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Chloromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Vinyl chloride	**U**	(ICAL), J		10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**	(ICAL), J		10.0	"	"	"	"	"
Trichlorofluoromethane	**U**	(ICAL), J		10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
2-Butanone	**U**			62.5	ug/L	5	B20I014	Sep-15-20	Sep-15-20
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**201**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**28.3**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**28.2**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**34.8**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Oct-23-20 13:16

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-200910 (2009007-11RE2) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	**113**			10.0	ug/L	5	B20I014	Sep-15-20	Sep-15-20
sec-Butylbenzene	**12.0**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**U**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82	*97.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.57	*95.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.1	*101%*	*84-108*	"	"	"

December 2020 Data Validation and Data Packages

Techlaw Document Controlled Number: 83139-1-23-612-DV-0016
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND AND EMERGENCY MANAGEMENT DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: January 11, 2021

FROM: Allison C Harvet, TechLaw Consultants, Inc.
Contractor, Environmental Services Assistance Team (ESAT)

THROUGH: Michelle Kerr
Region 5 ESAT Contracting Officer's Representative

TO: Data User: CDM Smith
Contact Person: John Grabs
Email address: grabsjc@cdmsmith.com

Stage_2B_Validation_Electronic_And_Manual (S2BVEM) Data Review Narrative

We have reviewed the data for the following case:

SITE Name: Southeast Rockford Groundwater, Area 11 (IL)

Case No: 49238 MA No: _____ SDG No: E3YH7

Number and Type of Samples: 11 waters (SVOA SIM)

Sample Numbers: E3YH1 – E3YH5, E3YH7 – E3YH9, E3YJ0 – E3YJ2

Laboratory: Pace Analytical Services, LLC Hrs. for Review:

Following are our findings:

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eleven (11) preserved water samples labeled E3YH1 through E3YH5, E3YH7 through E3YH9, and E3YJ0 through E3YJ2, were shipped to Pace Analytical Services LLC (EQI) located in West Columbia, SC. The samples were collected 12/01-02/2020 and received 12/02/2020 and 12/03/2020 intact. Four (4) samples; E3YH7, E3YJ0, E3YJ1 and E3YJ2, were received at the elevated temperature of 6.1°C. The remaining samples arrived properly cooled between 2.6°C and 4.1°C. All samples were analyzed according to CLP SOW SOM02.4, [Oct 2016] (and MA: 3054.0 – 1,4-Dioxane Analysis with Lower CRQL) and reviewed according to the QAPP, the September 2017 NFG for SOM02.4 (EPA-540-R-2017-002) and the Region 5 Organic CLP Validation SOP, DCN/SOP 83074-8-33-601-SO-1143.

Sample E3YH9 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

Sample E3YJ2 was identified as a field blank. Sample E3YH1 was identified as a field duplicate of sample E3YH2.

The sample results have been reviewed for compliance with the QAPP worksheets and all non-compliance are described in Section 17. – QAPP Compliance

'Only outliers and non-compliances are discussed in the narrative'.

1. PRESERVATION AND HOLDING TIMES

NONE FOUND.

2. GC/MS and GC/ECD INSTRUMENT PERFORMANCE CHECK

NONE FOUND.

3. INITIAL CALIBRATION

NONE FOUND.

4. INITIAL CALIBRATION VERIFICATION

NONE FOUND.

5. CONTINUING CALIBRATION

NONE FOUND.

6. BLANKS

NONE FOUND.

7. DEUTERATED MONITORING COMPOUNDS / SURROGATES

NONE FOUND.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following samples reported percent recovery below the QC criteria specified in MA: 3054.0 (15-120 %R). Detects in the unspiked sample, E3HY9(DL) is qualified as estimated J.

E3YH9MSD
1,4-Dioxane

The relative percent difference (RPD) between the following samples is outside the QC criteria specified in MA: 3054.0 (0-50 RPD). Detects in the unspiked sample, E3YH9(DL) is qualified as estimated J.

E3YH9MS, E3YH9MSD
1,4-Dioxane

9. CLEANUP PROCEDURES

NONE FOUND.

10. LABORATORY CONTROL SAMPLE

NONE FOUND.

11. INTERNAL STANDARD

NONE FOUND.

12. TARGET ANALYTE QUANTITATION LIMIT

Method – Semivolatiles by SIM

EXES-790
The following samples have analyte results greater than or equal to detection limit (MDL) and below quantitation limit (CRQL). Detects are qualified as estimated J.

E3YH2, E3YH3
1,4-Dioxane

13. TENTATIVELY IDENTIFIED COMPOUNDS

Not Validated for this Stage of Review.

14. SYSTEM PERFORMANCE

NONE FOUND.

15. FIELD QC SAMPLES

Review not required under specified validation stage.

16. SAMPLE RESULTS

The following samples reported analyte concentrations above the calibration range. No dilutions were performed as these samples are QC samples. Detects are qualified as estimated J.

E3YH9MS, E3YH9MSD
1,4-Dioxane

17. QAPP COMPLIANCE

The analytical package fulfilled the QAPP QC components requirements identified in the Southeast Rockford GW QAPP – Area 11.

The raw data package was missing the Form 3 for QC sample SLCS76.

Case No: 49238 SDG No: E3YH5
Site Name: Southeast Rockford Groundwater, Area 11 (IL) Laboratory: Pace (EQI)

Validation Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the results may be biased high.
J-	The result is an estimated quantity, but the results may be biased low.
NJ	The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample.
C	The Target Pesticide or Aroclor analyte identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).
X	The Target Pesticide or Aroclor analyte identification was not confirmed when GC/MS analysis was performed.

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW007	pH: 8	Sample Date: 12/02/2020	Sample Time: 10:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.19	U	ug/L	0.19	U	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW007	pH: 8	Sample Date: 12/02/2020	Sample Time: 10:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.069	J	ug/L	0.069	J	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH3	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW004A	pH: 8	Sample Date: 12/02/2020	Sample Time: 15:00:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.15	J	ug/L	0.15	J	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH4	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW003	pH: 8	Sample Date: 12/02/2020	Sample Time: 08:45:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.6		ug/L	4.6	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH5	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW002	pH: 8	Sample Date: 12/02/2020	Sample Time: 13:10:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	1.1		ug/L	1.1	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH7	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW130A	pH: 8	Sample Date: 12/01/2020	Sample Time: 09:35:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.0		ug/L	4.0	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH8	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW006	pH: 8	Sample Date: 12/01/2020	Sample Time: 12:11:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.1		ug/L	4.1	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW005	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	4.5	J	ug/L	4.5	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9MS	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location:	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	5.6	J	ug/L	5.6	E	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YH9MSD	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location:	pH: 8	Sample Date: 12/01/2020	Sample Time: 13:50:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Spike	4.5	J	ug/L	4.5	E	1.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ0	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW004B	pH: 8	Sample Date: 12/01/2020	Sample Time: 16:45:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	6.3		ug/L	6.3	D	5.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ1	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-MW001	pH: 8	Sample Date: 12/01/2020	Sample Time: 15:31:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	5.0		ug/L	5.0	D	2.0	YES	S2BVEM

Sample Summary Report

Project Name: SOUTHEAST ROCKFORD GROUND WATER CONTAMINATION Project | **GroupID: 49238/EPW14035/E3YH7** | **Lab Name: Pace Analytical Services, LLC**

Sample Number: E3YJ2	Method: Semivolatiles by SIM	Matrix: Water	MA Number: 3054.0
Sample Location: A11-FB001	pH: 8	Sample Date: 12/01/2020	Sample Time: 17:05:00
% Moisture:		% Solids: 0.0	

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,4-Dioxane	Target	0.19	U	ug/L	0.19	U	1.0	YES	S2BVEM

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012003-01	A11-MW130A-201201
2012003-02	A11-MW006-201201
2012003-03	A11-MW005-201201
2012003-04	A11-MW004B-201201
2012003-05	A11-MW001-201201
2012003-06	A11-FB001-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L003-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L003-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12		
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12	None	Sample results nondetect or > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L003-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	68%	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L003-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L003-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?		**No**	

Comments (note deviations): The cooler temperature was 0.3 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *1/19/2021*

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 15:25

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-200910 (2009007-01) **Matrix: Water** **Sampled: Sep-10-20 13:05** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW007-200910 (2009007-02) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.96**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW004A-200910 (2009007-03) **Matrix: Water** **Sampled: Sep-10-20 15:50** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**33.4**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**1.93**			0.12	"	"	"	"	"

A11-MW007-200910-D (2009007-04) **Matrix: Water** **Sampled: Sep-10-20 10:55** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.93**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW003-200910-D (2009007-05) **Matrix: Water** **Sampled: Sep-10-20 08:45** **Received: Sep-11-20 10:10**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**11.3**			0.12	mg/L	1	B20I013	Sep-11-20	Sep-11-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Nov-09-20 15:25

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/02/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012005-01	A11-MW007-201201-D
2012005-02	A11-MW007-201201
2012005-03	A11-MW004A-201201
2012005-04	A11-MW003-201201
2012005-05	A11-MW002-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
	A11-MW007-201201	**A11-MW007-201201-D**	Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L006-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**N/A**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L006-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.1 / 0.12	None	Sample results > RL
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.1 / 0.12	None	Sample results > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
N/A				

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L006-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	Acceptable	80-120		

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L006-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L006-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?		No	

Comments (note deviations): The cooler temperature was 0.6 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable as reported.

Data Validator: *Kristine Molloy* Date: *1/20/2021*

Data Reviewer: Cherie Zakowski Date: 1/23/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:18

Anions by Ion Chromatography, EPA 300.0 (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**17.3**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**6.26**			0.12	"	"	"	"	"

A11-MW006-201201 (2012003-02) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**5.56**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW005-201201 (2012003-03) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**33.7**	(MS), L		0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**14.1**			0.12	"	"	"	"	"

A11-MW004B-201201 (2012003-04) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**18.9**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**5.15**			0.12	"	"	"	"	"

A11-MW001-201201 (2012003-05) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**30.4**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**11.4**			0.12	"	"	"	"	"

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**U**			0.12	mg/L	1	B20L003	Dec-02-20	Dec-02-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:18

Notes and Definitions

L	The identification of the analyte is acceptable; the reported value may be biased low. The actual value is expected to be greater than the reported value.
(MS)	Matrix spike recovery criteria not met for this analyte
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 20012003_2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/2020 & 12/02/2020
Analysis/Methods:

Wet Chemistry:
Alkalinity M2320 B

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2012003-01	A11-MW130A-201201	2012005-01	A11-MW007-201201-D
2012003-02	A11-MW006-201201	2012005-02	A11-MW007-201201
2012003-03	A11-MW005-201201	2012005-03	A11-MW004A-201201
2012003-04	A11-MW004B-201201	2012005-04	A11-MW003-201201
2012003-05	A11-MW001-201201	2012005-05	A11-MW002-201201
2012003-06	A11-FB001-201201		

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Alkalinity 2320B)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**Yes**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample A11-MW007-201201**	**Duplicate A11-MW007-201201-D**	**%RPD**	**Qualifiers**	**Associated Samples**
			Acceptable		

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20L009-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**N/A**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**N/A**
Was the CCV criteria met?			**N/A**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20L009-BLK1	Nondetect			

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
N/A				

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
B20L009-SRM1	Acceptable			

ICV	%R	Limits	Qualifiers	Associated Samples
N/A				

CCV	%R	Limits	Qualifiers	Associated Samples
N/A				

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?		No	

Comments (note deviations): The cooler temperature was 0.3° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:
Data is usable as reported.

Data Validator: Kristine Molloy Date: 1/20/2021/

Data Reviewer: Cherie Zakowski Date: 1/23/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Alkalinity by SM 2320B
US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**350**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW006-201201 (2012003-02) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**450**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW005-201201 (2012003-03) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**380**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW004B-201201 (2012003-04) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**340**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW001-201201 (2012003-05) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**350**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**U**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**540**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**540**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Alkalinity by SM 2320B

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**330**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**390**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

A11-MW002-201201 (2012005-05) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Total Alkalinity	**440**			20	mg CaCO3/L	1	B20L009	Dec-09-20	Dec-09-20

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-18-20 12:33

Notes and Definitions

*	This Quality Control measure meets the requirements of the CRL SOP for this analyte.
U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/20
Analysis/Methods:

Wet Chemistry:
Anions - EPA 300.0

Samples in SDG:

Lab ID	Sample Number
2012003-01	A11-MW130A-201201
2012003-02	A11-MW006-201201
2012003-03	A11-MW005-201201
2012003-04	A11-MW004B-201201
2012003-05	A11-MW001-201201
2012003-06	A11-FB001-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Inorganic Superfund Methods Data Review (EPA January 2017).

Wet Chemistry Parameters (Anions 300.0)

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			**N/A**
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			**N/A**
Laboratory Control Spike Duplicates RPD within limits?			**N/A**
Laboratory Duplicate RPDs within limits?			**Yes**

Comments (note deviations):

Field Duplicates	**Sample**	**Duplicate**	**%RPD**	**Qualifiers**	**Associated Samples**
N/A					

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
N/A				

LCS/LCSD	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
E20L003-DUP1	Acceptable			

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			**Yes**
Laboratory Control Sample criteria met?			**Yes**
Were the Laboratory Method Blank results all < RL?			**Yes**
Were the Field Blanks results all < RL?			**Yes**
Was the ICAL criteria met?			**Yes**
Was the CCV criteria met?			**Yes**
Was the Tuning criteria met?			**N/A**
Were the Surrogate % recoveries within laboratory determined control limits?			**N/A**
Were the Internal Standard areas within ± 50 - 150%?			**N/A**

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
E20L003-BLK1				
Nitrogen, Nitrate	Nondetect			
Sulfate	Nondetect			

ICB/CCB		Concentration	MDL / PQL	Qualifiers	Associated Samples
ICB	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12		
CCB1	Nitrogen, Nitrate	Nondetect			
	Sulfate	0.03	0.10 / 0.12	None	Sample results nondetect or > RL

Field Blank	Concentration	MDL / PQL	Qualifiers	Associated Samples
A11-FB001-201201	Nondetect			

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
E20L003-MS1				
Nitrogen, Nitrate	Acceptable	80-120		
Sulfate	68%	80-120	**J- / UJ**	**All samples**

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
E20L003-BS1				
Nitrogen, Nitrate	Acceptable	90-110		
Sulfate	Acceptable	90-110		

ICV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

CCV		%R	Limits	Qualifiers	Associated Samples
	Nitrogen, Nitrate	Acceptable			
	Sulfate	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L003-MRL1				
Nitrogen, Nitrate	Acceptable			
Sulfate	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	**Yes**		
Were holding times met?	**Yes**		
Was preservation criteria met? (0° C - 6° C)	**Yes**		
Were Chain-of-Custody records complete and provided in data package?		**No**	

Comments (note deviations): The cooler temperature was 0.3 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability: Yes No N/A

Were analytical procedures and methods followed as defined in the QAPP or field change documentation? **Yes**

Comments (note deviations):

Completeness (90%): Yes No N/A

Are all data in this SDG usable? **Yes**

Comments (note deviations):

Sensitivity: Yes No N/A

Are MDLs present and reported? **Yes**

Do the reporting limits meet project requirements? **Yes**

Comments (note deviations):

Comment:

Data is usable with appropriate qualifiers applied.

Data Validator: *Kristine Molloy* Date: *1/19/2021*

Data Reviewer: Cherie Zakowski Date: 1/25/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:52

Anions by Ion Chromatography, EPA 300.0 (modified)
US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.56**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**2.45**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW004A-201201 (2012005-03) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**42.9**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**1.66**			0.12	"	"	"	"	"

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**8.52**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

A11-MW002-201201 (2012005-05) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Sulfate as SO4	**1.09**			0.12	mg/L	1	B20L006	Dec-03-20	Dec-03-20
Nitrate - NO3	**U**			0.12	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Dec-07-20 16:52

Notes and Definitions

U	Not Detected
NR	Not Reported
Q	QC limit Exceeded

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 2012003, 2012005
Laboratory: ESAT - US EPA Region 5 LSASD Analytical Services Branch

Matrix: Groundwater
Collection date: 12/01/2020 & 12/02/2020
Analysis/Methods:

Volatile Organic Compounds (VOCs) 8260

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
2012003-01RE1	A11-MW130A-201201	2012005-01RE1	A11-MW007-201201-D
2012003-02RE1	A11-MW006-201201	2012005-02RE1	A11-MW007-201201
2012003-03RE1	A11-MW005-201201	2012005-03RE2	A11-MW004A-201201
2012003-04RE1	A11-MW004B-201201	2012005-04RE1	A11-MW003-201201
2012003-05RE1	A11-MW001-201201	2012005-05RE2	A11-MW002-201201
2012003-06	A11-FB001-201201	2012005-06RE1	A11-TB002-201201
2012003-07	A11-TB001-201201		

Data validation was performed in accordance with the specific analytical method and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Volatile Organic Compounds 8260 / 1,4-Dioxane 8000D

Precision:	**Yes**	**No**	**N/A**
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?		**No**	
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)	**Yes**		
Laboratory Control Spike Duplicates RPD within limits?		**No**	
Laboratory Duplicate RPDs within limits?			**N/A**

Comments (note deviations):

Field Duplicates		**Sample A11-MW007-201201**	**Duplicate A11-MW007-201201-D**	**%RPD**	**Qualifiers**	**Associated Samples**
	Isopropylbenzene	109	486	127%	**J**	
	n-Propylbenzene	104	454	125%	**J**	
	sec-Butylbenzene	17.5	68.4	74%	**J**	
	1,3,5-Trimethylbenzene	14.4	56.7	NC	**J***	**A11-MW007-201201 & A11-MW007-201201-D**
	Benzene	10 U	44.3	NC	**J / UJ***	
	Naphthalene	34	97.3	NC	**J***	
	n-Butylbenzene	19.9	66.9	NC	**J***	
	1,2,4-Trimethylbenzene	131	169	NC	None	Sample results < 5xs RL; ABS Diff. < RL

* Sample results < 5xs RL; ABS Diff. > RL

MS/MSD	**%RPD**	**Limit**	**Qualifiers**	**Associated Samples**
B20L005-MS1 / MSD1 (2012003-03RE1)	Acceptable			

LCS/LCSD		**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
B20L004-BS1 / BSD1	Acetone	23.5	20%	**J****	**2012003-06, 2012003-07**
B20L005-BS1 / BSD1	2,2-Dichloropropane	23.7	20%	**J****	**2012003-01RE1 through 2012003-05RE1**
B20L008-BS1 / BSD1		Acceptable			
B20L008-BS2 / BSD2	2,2-Dichloropropane	57.8	20%	**J****	**2012005-03RE2, 2012005-05RE2**

**Qualification required for detected results only - associated results nondetect - no qualification required

Laboratory Duplicate	**%RPD**	**Limits**	**Qualifiers**	**Associated Samples**
N/A				

Accuracy:	**Yes**	**No**	**N/A**
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)	**Yes**		
Laboratory Control Sample criteria met?		**No**	
Were the Laboratory Method Blank results all < RL?	**Yes**		
Were the Field Blanks results all < RL?	**Yes**		
Was the ICAL criteria met?	**Yes**		
Was the CCV criteria met?	**Yes**		
Was the Tuning criteria met?	**Yes**		
Were the Surrogate % recoveries within laboratory determined control limits?	**Yes**		
Were the Internal Standard areas within ± 50 - 150%?	**Yes**		

Comments (note deviations):

Blanks	**Concentration**	**MDL /PQL**	**Qualifiers**	**Associated Samples**
B20L004-BLK1	Nondetect			
B20L004-BLK2	Nondetect			
B20L005-BLK1	Nondetect			
B20L005-BLK2	Nondetect			
B20L008-BLK1	Nondetect			
B20L008-BLK2	Nondetect			

Field Blank	**Concentration**	**MDL / PQL**	**Qualifiers**	**Associated Samples**
A11-FB001-201201	Nondetect			
A11-TB001-201201	Nondetect			
A11-TB001-201201	Nondetect			

Surrogates	**%R**	**Limit**	**Qualifiers**	**Associated Samples**
	Acceptable			

MS/MSD	**%R**	**Limits (%)**	**Qualifiers**	**Associated Samples**
B20L005-MS1 / MSD1 (2012003-03RE1)	Acceptable			

LCS/LCSD		**%R**	**Limits**	**Qualifiers**	**Associated Samples**
B20L004-BS1 / BSD1		Acceptable			
B20L005-BS1 / BSD1		Acceptable			
B20L005-BS2		Acceptable			
B20L008-BS1 / BSD1		Acceptable			
B20L008-BS2/ BSD2	2,2-Dichloropropane	71.5 / 39.5	70-130	**J / UJ**	**2012005-03RE2, 2012005-05RE2**

ICAL	**RRF**	**%RSD**	**Limits**	**Qualifiers**	**Associated Samples**
12/1/2020 11:44	Acceptable	Acceptable			

ICV / CCV	**RRF**	**%D**	**Limits**	**Qualifiers**	**Associated Samples**
ICV					
12/1/2020 3:28	Acceptable	Acceptable			
CCV					
12/2/2020 13:34	Acceptable	Acceptable			
12/2/2020 18:26	Acceptable	Acceptable			
12/3/2020 9:03	Acceptable	Acceptable			
12/3/2020 13:44	Acceptable	Acceptable			
12/3/2020 19:35	Acceptable	Acceptable			
12/4/2020 12:40	Acceptable	Acceptable			
12/4/2020 18:54	Acceptable	Acceptable			
12/5/2020 1:58	Acceptable	Acceptable			
12/5/2020 9:28	Acceptable	Acceptable			

MRL Check	%R	Limits	Qualifiers	Associated Samples
B20L005-MRL1	Acceptable			

Tune
Acceptable

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
		Acceptable		

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 0.30 ° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, sample 2012003-03 vial B was not acid preserved, but was analyzed within 7 days of sampling, All other samples were properly preserved (acidification in field) and met hold time (14 days) criteria.

As stated in the case narrative, samples were first screened at a 50x dilution and some re-injections were required. Each analyte is reported at the lowest dilution factor for which the analyte concentration remained within calibration range.

As stated in the case narrative, no matrix spike was analyzed for the samples associated with batch B2L008 due to insufficient number of vials.

Case narrative indicates co-elution affected the concentration of n-butylbenzene, n-Butylbenzene has been flagged as an estimated concentration (J) when detected above the reporting limit.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 5/3/2021

Data Reviewer: Cherie Zakowski Date: 5/6/2021

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01RE1) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**3.77**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**3.51**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW130A-201201 (2012003-01RE1) **Matrix: Water** **Sampled: Dec-01-20 09:35** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chlorobenzene	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.57	*95.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.66	*96.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.86	*98.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-201201 (2012003-02RE1) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**2.82**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW006-201201 (2012003-02RE1) **Matrix: Water** **Sampled: Dec-01-20 12:11** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2	*101%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	9.95	*99.5%*	*88-108*	"	"	"
4-Bromofluorobenzene	10.2	*102%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-201201 (2012003-03RE1) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**7.01**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**4.90**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW005-201201 (2012003-03RE1) **Matrix: Water** **Sampled: Dec-01-20 13:50** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.75	*96.9%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.55	*95.5%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-201201 (2012003-04RE1) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**5.67**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**5.61**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004B-201201 (2012003-04RE1) **Matrix: Water** **Sampled: Dec-01-20 16:45** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.88	*98.2%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.2	*101%*	*84-122*	"	"	"
Toluene-d8	9.87	*98.7%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.68	*96.8%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-201201 (2012003-05RE1) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**4.94**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**9.02**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**2.15**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW001-201201 (2012003-05RE1) **Matrix: Water** **Sampled: Dec-01-20 05:31** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L005	Dec-02-20	Dec-03-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.71	*96.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*100%*	*84-122*	"	"	"
Toluene-d8	10.0	*100%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.69	*96.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-FB001-201201 (2012003-06) **Matrix: Water** **Sampled: Dec-01-20 17:01** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.83	*97.8%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	9.94	*98.7%*	*84-122*	"	"	"
Toluene-d8	9.80	*98.0%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.99	*99.9%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-201201 (2012003-07) **Matrix: Water** **Sampled: Dec-01-20 09:00** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"
Chloroform	**U**			2.00	"	"	"	"	"
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB001-201201 (2012003-07) **Matrix: Water** **Sampled: Dec-01-20 09:00** **Received: Dec-02-20 11:34**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,1,2-Tetrachloroethane	**U**			2.00	ug/L	1	B20L004	Dec-02-20	Dec-02-20
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"
sec-Butylbenzene	**U**			2.00	"	"	"	"	"
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.86	*98.6%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.87	*98.7%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**3660**			100	ug/L	50	B20L005	Dec-02-20	Dec-03-20
m+p-Xylene	**8100**			200	"	"	"	"	"
1,2,4-Trimethylbenzene	**169**			100	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.76	*97.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.1	*99.8%*	*84-122*	"	"	"
Toluene-d8	9.78	*97.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.83	*98.3%*	*84-108*	"	"	"

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**44.3**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibromomethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**486**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**454**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**56.7**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
sec-Butylbenzene	**68.4**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**66.9**	CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**97.3**			10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201-D (2012005-01RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.97			*99.1%*		*73-124*	*B20L008*	*Dec-04-20*	*Dec-04-20*
1,2-Dichloroethane-d4	10.4			*104%*		*84-122*	"	"	"
Toluene-d8	10.3			*103%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.19			*91.9%*		*84-108*	"	"	"

A11-MW007-201201 (2012005-02) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Ethylbenzene	**3300**			100	ug/L	50	B20L005	Dec-02-20	Dec-03-20
m+p-Xylene	**7390**			200	"	"	"	"	"
Surrogate	Result			%REC		%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.2			*102%*		*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3			*102%*		*84-122*	"	"	"
Toluene-d8	10.1			*101%*		*88-108*	"	"	"
4-Bromofluorobenzene	9.78			*97.8%*		*84-108*	"	"	"

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromochloromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**109**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**104**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**14.4**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**131**			10.0	"	"	"	"	"
sec-Butylbenzene	**17.5**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW007-201201 (2012005-02RE1) **Matrix: Water** **Sampled: Dec-02-20 10:50** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3-Dichlorobenzene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**19.9**	B, CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**34.0**	B		10.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			10.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.6%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.3	*102%*	*84-122*	"	"	"
Toluene-d8	9.82	*98.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.25	*92.5%*	*84-108*	"	"	"

A11-MW004A-201201 (2012005-03RE1) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**34200**			1250	ug/L	625	B20L008	Dec-04-20	Dec-04-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.83	*97.7%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.1	*101%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.78	*97.8%*	*84-108*	"	"	"

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Trichlorofluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"
2,2-Dichloropropane	**U**	(LCS), J		50.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Ethylbenzene	**331**			50.0	"	"	"	"	"
m+p-Xylene	**489**			100	"	"	"	"	"
o-Xylene	**52.2**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW004A-201201 (2012005-03RE2) **Matrix: Water** **Sampled: Dec-02-20 15:00** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Isopropylbenzene	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**U**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			50.0	"	"	"	"	"
sec-Butylbenzene	**U**			50.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**U**			50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.97	*99.1%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.5	*104%*	*84-122*	"	"	"
Toluene-d8	10.3	*103%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.76	*97.6%*	*84-108*	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
m+p-Xylene	**6310**			200	ug/L	50	B20L005	Dec-02-20	Dec-03-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.86	*98.0%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.68	*96.8%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.52	*95.2%*	*84-108*	"	"	"

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			10.0	"	"	"	"	"
Vinyl chloride	**U**			10.0	"	"	"	"	"
Bromomethane	**U**			10.0	"	"	"	"	"
Chloroethane	**U**			10.0	"	"	"	"	"
Trichlorofluoromethane	**U**			10.0	"	"	"	"	"
1,1-Dichloroethene	**U**			10.0	"	"	"	"	"
Acetone	**U**			62.5	"	"	"	"	"
Carbon disulfide	**U**			10.0	"	"	"	"	"
Methylene chloride	**U**			10.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
1,1-Dichloroethane	**U**			10.0	"	"	"	"	"
2,2-Dichloropropane	**U**			10.0	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			10.0	"	"	"	"	"
2-Butanone	**U**			62.5	"	"	"	"	"
Bromochloromethane	**U**			10.0	"	"	"	"	"
Chloroform	**U**			10.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			10.0	"	"	"	"	"
Carbon tetrachloride	**U**			10.0	"	"	"	"	"
1,1-Dichloropropene	**U**			10.0	"	"	"	"	"
Benzene	**U**			10.0	"	"	"	"	"
1,2-Dichloroethane	**U**			10.0	"	"	"	"	"
Trichloroethene	**U**			10.0	"	"	"	"	"
1,2-Dichloropropane	**U**			10.0	"	"	"	"	"
Dibromomethane	**U**			10.0	"	"	"	"	"
Bromodichloromethane	**U**			10.0	"	"	"	"	"

Environmental Protection Agency Region 5

US EPA Region 5 LSASD Analytical Services Branch

536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
cis-1,3-Dichloropropene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20
4-Methyl-2-pentanone	**U**			25.0	"	"	"	"	"
Toluene	**U**			10.0	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			10.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			10.0	"	"	"	"	"
Tetrachloroethene	**U**			10.0	"	"	"	"	"
1,3-Dichloropropane	**U**			10.0	"	"	"	"	"
2-Hexanone	**U**			25.0	"	"	"	"	"
Dibromochloromethane	**U**			10.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			10.0	"	"	"	"	"
Chlorobenzene	**U**			10.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
Ethylbenzene	**256**			10.0	"	"	"	"	"
o-Xylene	**U**			10.0	"	"	"	"	"
Styrene	**U**			10.0	"	"	"	"	"
Bromoform	**U**			10.0	"	"	"	"	"
Isopropylbenzene	**38.5**			10.0	"	"	"	"	"
Bromobenzene	**U**			10.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			10.0	"	"	"	"	"
n-Propylbenzene	**37.3**			10.0	"	"	"	"	"
2-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**55.0**			10.0	"	"	"	"	"
4-Chlorotoluene	**U**			10.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			10.0	"	"	"	"	"
tert-Butylbenzene	**U**			10.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**178**			10.0	"	"	"	"	"
sec-Butylbenzene	**15.0**			10.0	"	"	"	"	"
1,3-Dichlorobenzene	**U**			10.0	"	"	"	"	"
p-Isopropyltoluene	**U**			10.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			10.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			10.0	"	"	"	"	"
n-Butylbenzene	**13.1**	B, CustomFlag, J		10.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			10.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			10.0	"	"	"	"	"
Hexachlorobutadiene	**U**			10.0	"	"	"	"	"
Naphthalene	**16.6**	B		10.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW003-201201 (2012005-04RE1) **Matrix: Water** **Sampled: Dec-02-20 08:45** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,3-Trichlorobenzene	**U**			10.0	ug/L	5	B20L008	Dec-04-20	Dec-04-20

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.81	*97.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.9	*108%*	*84-122*	"	"	"
Toluene-d8	9.91	*99.1%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.79	*97.9%*	*84-108*	"	"	"

A11-MW002-201201 (2012005-05RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Toluene	**33200**			1250	ug/L	625	B20L008	Dec-04-20	Dec-04-20
Ethylbenzene	**10200**			1250	"	"	"	"	"
m+p-Xylene	**31900**			2500	"	"	"	"	"
o-Xylene	**6140**			1250	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.1	*100%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.7	*106%*	*84-122*	"	"	"
Toluene-d8	9.89	*98.9%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.65	*96.5%*	*84-108*	"	"	"

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
Chloromethane	**U**			50.0	"	"	"	"	"
Vinyl chloride	**U**			50.0	"	"	"	"	"
Bromomethane	**U**			50.0	"	"	"	"	"
Chloroethane	**U**			50.0	"	"	"	"	"
Trichlorofluoromethane	**U**			50.0	"	"	"	"	"
1,1-Dichloroethene	**U**			50.0	"	"	"	"	"
Acetone	**U**			312	"	"	"	"	"
Carbon disulfide	**U**			50.0	"	"	"	"	"
Methylene chloride	**U**			50.0	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
1,1-Dichloroethane	**U**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
2,2-Dichloropropane	**U**	(LCS), J		50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
cis-1,2-Dichloroethene	**U**			50.0	"	"	"	"	"
2-Butanone	**U**			312	"	"	"	"	"
Bromochloromethane	**U**			50.0	"	"	"	"	"
Chloroform	**U**			50.0	"	"	"	"	"
1,1,1-Trichloroethane	**U**			50.0	"	"	"	"	"
Carbon tetrachloride	**U**			50.0	"	"	"	"	"
1,1-Dichloropropene	**U**			50.0	"	"	"	"	"
Benzene	**U**			50.0	"	"	"	"	"
1,2-Dichloroethane	**U**			50.0	"	"	"	"	"
Trichloroethene	**U**			50.0	"	"	"	"	"
1,2-Dichloropropane	**U**			50.0	"	"	"	"	"
Dibromomethane	**U**			50.0	"	"	"	"	"
Bromodichloromethane	**U**			50.0	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
4-Methyl-2-pentanone	**U**			125	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			50.0	"	"	"	"	"
1,1,2-Trichloroethane	**U**			50.0	"	"	"	"	"
Tetrachloroethene	**U**			50.0	"	"	"	"	"
1,3-Dichloropropane	**U**			50.0	"	"	"	"	"
2-Hexanone	**U**			125	"	"	"	"	"
Dibromochloromethane	**U**			50.0	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			50.0	"	"	"	"	"
Chlorobenzene	**U**			50.0	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
Styrene	**U**			50.0	"	"	"	"	"
Bromoform	**U**			50.0	"	"	"	"	"
Isopropylbenzene	**78.1**			50.0	"	"	"	"	"
Bromobenzene	**U**			50.0	"	"	"	"	"
1,2,3-Trichloropropane	**U**			50.0	"	"	"	"	"
n-Propylbenzene	**87.4**			50.0	"	"	"	"	"
2-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,3,5-Trimethylbenzene	**161**			50.0	"	"	"	"	"
4-Chlorotoluene	**U**			50.0	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			50.0	"	"	"	"	"
tert-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2,4-Trimethylbenzene	**588**			50.0	"	"	"	"	"

Environmental Protection Agency Region 5

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-MW002-201201 (2012005-05RE2) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	**U**			50.0	ug/L	25	B20L008	Dec-04-20	Dec-05-20
1,3-Dichlorobenzene	**U**			50.0	"	"	"	"	"
p-Isopropyltoluene	**U**			50.0	"	"	"	"	"
1,4-Dichlorobenzene	**U**			50.0	"	"	"	"	"
1,2-Dichlorobenzene	**U**			50.0	"	"	"	"	"
n-Butylbenzene	**U**			50.0	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			50.0	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			50.0	"	"	"	"	"
Hexachlorobutadiene	**U**			50.0	"	"	"	"	"
Naphthalene	**58.5**	B		50.0	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			50.0	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	10.0	*99.5%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.6	*105%*	*84-122*	"	"	"
Toluene-d8	10.5	*105%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.43	*94.3%*	*84-108*	"	"	"

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Dichlorodifluoromethane	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
Chloromethane	**U**			2.00	"	"	"	"	"
Vinyl chloride	**U**			2.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
Chloroethane	**U**			2.00	"	"	"	"	"
Trichlorofluoromethane	**U**			2.00	"	"	"	"	"
1,1-Dichloroethene	**U**			2.00	"	"	"	"	"
Acetone	**U**			12.5	"	"	"	"	"
Carbon disulfide	**U**			2.00	"	"	"	"	"
Methylene chloride	**U**			2.00	"	"	"	"	"
trans-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
1,1-Dichloroethane	**U**			2.00	"	"	"	"	"
2,2-Dichloropropane	**U**			2.00	"	"	"	"	"
cis-1,2-Dichloroethene	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			12.5	"	"	"	"	"
Bromochloromethane	**U**			2.00	"	"	"	"	"

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Superfund, US EPA Region 5	Project: SE Rockford GW Contamination	
77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloroform	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
1,1,1-Trichloroethane	**U**			2.00	"	"	"	"	"
Carbon tetrachloride	**U**			2.00	"	"	"	"	"
1,1-Dichloropropene	**U**			2.00	"	"	"	"	"
Benzene	**U**			2.00	"	"	"	"	"
1,2-Dichloroethane	**U**			2.00	"	"	"	"	"
Trichloroethene	**U**			2.00	"	"	"	"	"
1,2-Dichloropropane	**U**			2.00	"	"	"	"	"
Dibromomethane	**U**			2.00	"	"	"	"	"
Bromodichloromethane	**U**			2.00	"	"	"	"	"
cis-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
4-Methyl-2-pentanone	**U**			5.00	"	"	"	"	"
Toluene	**U**			2.00	"	"	"	"	"
trans-1,3-Dichloropropene	**U**			2.00	"	"	"	"	"
1,1,2-Trichloroethane	**U**			2.00	"	"	"	"	"
Tetrachloroethene	**U**			2.00	"	"	"	"	"
1,3-Dichloropropane	**U**			2.00	"	"	"	"	"
2-Hexanone	**U**			5.00	"	"	"	"	"
Dibromochloromethane	**U**			2.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	**U**			2.00	"	"	"	"	"
Chlorobenzene	**U**			2.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
Ethylbenzene	**U**			2.00	"	"	"	"	"
m+p-Xylene	**U**			4.00	"	"	"	"	"
o-Xylene	**U**			2.00	"	"	"	"	"
Styrene	**U**			2.00	"	"	"	"	"
Bromoform	**U**			2.00	"	"	"	"	"
Isopropylbenzene	**U**			2.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
1,2,3-Trichloropropane	**U**			2.00	"	"	"	"	"
n-Propylbenzene	**U**			2.00	"	"	"	"	"
2-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,3,5-Trimethylbenzene	**U**			2.00	"	"	"	"	"
4-Chlorotoluene	**U**			2.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	**U**			2.00	"	"	"	"	"
tert-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2,4-Trimethylbenzene	**U**			2.00	"	"	"	"	"

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77 West Jackson Boulevard	Project Number: ILD981000417	**Reported:**
Chicago IL, 60604	Project Manager: Terese Van Donsel	Jan-15-21 13:14

Volatiles by GC/MS, EPA 8260C (modified)

US EPA Region 5 LSASD Analytical Services Branch

A11-TB002-201201 (2012005-06RE1) **Matrix: Water** **Sampled: Dec-02-20 13:10** **Received: Dec-03-20 10:57**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	**U**			2.00	ug/L	1	B20L008	Dec-04-20	Dec-04-20
1,3-Dichlorobenzene	**U**			2.00	"	"	"	"	"
p-Isopropyltoluene	**U**			2.00	"	"	"	"	"
1,4-Dichlorobenzene	**U**			2.00	"	"	"	"	"
1,2-Dichlorobenzene	**U**			2.00	"	"	"	"	"
n-Butylbenzene	**U**			2.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	**U**			2.00	"	"	"	"	"
1,2,4-Trichlorobenzene	**U**			2.00	"	"	"	"	"
Hexachlorobutadiene	**U**			2.00	"	"	"	"	"
Naphthalene	**U**			2.00	"	"	"	"	"
1,2,3-Trichlorobenzene	**U**			2.00	"	"	"	"	"

Surrogate	Result	%REC	%REC Limits	Batch	Prepared	Analyzed
Dibromofluoromethane	9.82	*97.7%*	*73-124*	"	"	"
1,2-Dichloroethane-d4	10.4	*103%*	*84-122*	"	"	"
Toluene-d8	9.92	*99.2%*	*88-108*	"	"	"
4-Bromofluorobenzene	9.37	*93.7%*	*84-108*	"	"	"

Southeast Rockford Area 11 - Groundwater Samples
Data Validation Report

Sample Delivery Group (SDG) Number: 680-192276
Laboratory: Eurofins Test America

Matrix: Groundwater
Collection date: 12/1/2020 & 12/2/2020
Analysis/Methods:

Dissolved Gases - Methane - RSK-175

Samples in SDG:

Lab ID	Sample Number	Lab ID	Sample Number
680-192276-1	A11-MW006-201201	680-192276-7	A11-MW003-201202
680-192276-2	A11-MW130A-201201	680-192276-8	A11-MW007-201202
680-192276-3	A11-MW005-201201	680-192276-9	A11-MW007-201202-D
680-192276-4	A11-MW001-201201	680-192276-10	A11-MW002-201202
680-192276-5	A11-MW004B-201201	680-192276-11	A11-MW004A-201202
680-192276-6	A11-FB01-201201	680-192276-12	A11-TB01-201201

Data validation was performed in accordance with the specific analytical methods and the National Functional Guidelines for Organic Superfund Methods Data Review (EPA January 2017).

Methane (RSK-175)

Precision:	Yes	No	N/A
Are the field duplicate relative percent differences (RPD) ≤30% (aqueous)?			Yes
Were the Matrix Spike Duplicate RPDs ≤ 20%? (Or lab defined limits)			Yes
Laboratory Control Spike Duplicates RPD within limits?			Yes
Laboratory Duplicate RPDs within limits?			N/A

Comments (note deviations):

Field Duplicates	Sample	Duplicate	%RPD	Qualifiers	Associated Samples
	A11-MW007-201202	A11-MW007-201202-D	Acceptable		

MS/MSD	%RPD	Limit	Qualifiers	Associated Samples
MS/MSD 680-192276-3	Acceptable			

LCS/LCSD	%RPD	Limits	Qualifiers	Associated Samples
LCS 680-647488/ 6 / 7	Acceptable			
LCS 680-647488/ 3 / 4	Acceptable			

Laboratory Duplicate	%RPD	Limits	Qualifiers	Associated Samples
N/A				

Accuracy:	Yes	No	N/A
Was the Matrix Spike/Matrix Spike Duplicate criteria met? (frequency ≥ 5% and laboratory determined control limits)			Yes
Laboratory Control Sample criteria met?			Yes
Were the Laboratory Method Blank results all < RL?			Yes
Were the Field Blanks results all < RL?			No
Was the ICAL criteria met?			Yes
Was the CCV criteria met?			Yes
Was the Tuning criteria met?			N/A
Were the Surrogate % recoveries within laboratory determined control limits?			N/A
Were the Internal Standard areas within ± 50 - 150%?			N/A

Comments (note deviations):

Blanks	Concentration (mg/L)	MDL /PQL	Qualifiers	Associated Samples
MB 680-647488/ 8	Nondetect			

Field Blank		Concentration	MDL /PQL	Qualifiers	Associated Samples
A11-TB01-201201	Methane	0.47 J	0.29 / 0.58	U-RL	680-192276-3
A11-FB01-201201	Methane	0.52 J	0.29 / 0.58	U-RL	680-192276-3

Surrogates	%R	Limit	Qualifiers	Associated Samples
N/A				

MS/MSD	%R	Limits (%)	Qualifiers	Associated Samples
MS/MSD 680-192276-3	Acceptable			

LCS/LCSD	%R	Limits	Qualifiers	Associated Samples
LCS 680-647488/ 6 / 7	Acceptable			
LCS 680-647488/ 3 / 4	Acceptable			

ICAL	RRF	%RSD	Qualifiers	Associated Samples
2/17/2020 8:45	Acceptable	Acceptable		
3/04/2020 9:12	Acceptable	Acceptable		

ICV / CCV	RRF	%D	Limits	Qualifiers	Associated Samples
ICV					
3/04/2020 11:29	Acceptable	Acceptable			
CCV					
12/08/2020 17:37	Acceptable	Acceptable			
12/08/2020 17:12	Acceptable	Acceptable			
12/08/2020 20:20	Acceptable	Acceptable			

Tune
N/A

Internal Standards	Area	Area Lower / Upper Limit	Qualifiers	Associated Samples
N/A				

Representativeness:	Yes	No	N/A
Were sampling procedures and design criteria met?	Yes		
Were holding times met?	Yes		
Was preservation criteria met? (0° C - 6° C)	Yes		
Were Chain-of-Custody records complete and provided in data package?	Yes		

Comments (note deviations): The cooler temperature was 4.1° C.

Preservation	Cooler Temperature (Degrees C)	Preservation Criteria	Qualifier	Associated Samples
	Acceptable			

Holding Times	Analyte	Days to Extraction	HT Criteria	Qualifier	Associated Samples
		Acceptable			

Comparability:	Yes	No	N/A
Were analytical procedures and methods followed as defined in the QAPP or field change documentation?	Yes		

Comments (note deviations):

Completeness (90%):	Yes	No	N/A
Are all data in this SDG usable?	Yes		

Comments (note deviations):

Sensitivity:

	Yes	No	N/A
Are MDLs present and reported?	Yes		
Do the reporting limits meet project requirements?	Yes		

Comments (note deviations):

Comment:

As stated in the case narrative, the MS/MSD was spiked at the concentration range meant for the TCD detector. The methane results for the FID detector were over the calibration range as a result of the error. The recovery areas are within limits for both FID and TCD detectors. Both the FID and TCD detectors are being reported for the MS/MSD.

Data is usable with appropriate qualifiers applied.

Data Validator: Kristine Molloy Date: 5/2/2021

Data Reviewer: Cherie Zakowski Date: 5/4/2021

Detection Summary

Client: CDM Smith, Inc.
Job ID: 680-192276-1
Project/Site: Methane Analysis - SE Rockford Area 11

Client Sample ID: A11-MW006-201201 — Lab Sample ID: 680-192276-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	8100		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW130A-201201 — Lab Sample ID: 680-192276-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	1.4		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW005-201201 — Lab Sample ID: 680-192276-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.48	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW001-201201 — Lab Sample ID: 680-192276-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	11		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004B-201201 — Lab Sample ID: 680-192276-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	20		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-FB01-201201 — Lab Sample ID: 680-192276-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.52	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW003-201202 — Lab Sample ID: 680-192276-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	6600		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-201202 — Lab Sample ID: 680-192276-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	31000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW007-201202-D — Lab Sample ID: 680-192276-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	29000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW002-201202 — Lab Sample ID: 680-192276-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane (TCD)	31000		390	39	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-MW004A-201202 — Lab Sample ID: 680-192276-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	250		0.58	0.29	ug/L	1		RSK-175	Total/NA

Client Sample ID: A11-TB01-201201 — Lab Sample ID: 680-192276-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methane	0.47	J	0.58	0.29	ug/L	1		RSK-175	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: A11-MW006-201201 — Lab Sample ID: 680-192276-1

Date Collected: 12/01/20 12:11 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	8100		390	39	ug/L			12/08/20 16:46	1

Client Sample ID: A11-MW130A-201201 — Lab Sample ID: 680-192276-2

Date Collected: 12/01/20 09:35 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1.4		0.58	0.29	ug/L			12/08/20 16:59	1

Client Sample ID: A11-MW005-201201 — Lab Sample ID: 680-192276-3

Date Collected: 12/01/20 13:50 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.48	J	0.58	0.29	ug/L			12/08/20 17:45	1

Client Sample ID: A11-MW001-201201 — Lab Sample ID: 680-192276-4

Date Collected: 12/01/20 15:31 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	11		0.58	0.29	ug/L			12/08/20 18:24	1

Client Sample ID: A11-MW004B-201201 — Lab Sample ID: 680-192276-5

Date Collected: 12/01/20 16:45 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	20		0.58	0.29	ug/L			12/08/20 18:36	1

Client Sample ID: A11-FB01-201201 — Lab Sample ID: 680-192276-6

Date Collected: 12/01/20 17:05 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.52	J	0.58	0.29	ug/L			12/08/20 18:49	1

Client Sample ID: A11-MW003-201202 — Lab Sample ID: 680-192276-7

Date Collected: 12/02/20 08:45 — **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	6600		390	39	ug/L			12/08/20 19:02	1

Client Sample ID: A11-MW007-201202 — Lab Sample ID: 680-192276-8

Date Collected: 12/02/20 10:50 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	31000		390	39	ug/L			12/08/20 19:15	1

Client Sample ID: A11-MW007-201202-D — Lab Sample ID: 680-192276-9

Date Collected: 12/02/20 10:50 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	29000		390	39	ug/L			12/08/20 19:28	1

Client Sample ID: A11-MW002-201202 — Lab Sample ID: 680-192276-10

Date Collected: 12/02/20 13:10 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane (TCD)	31000		390	39	ug/L			12/08/20 19:41	1

Client Sample ID: A11-MW004A-201202 — Lab Sample ID: 680-192276-11

Date Collected: 12/02/20 15:00 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	250		0.58	0.29	ug/L			12/08/20 19:54	1

Client Sample ID: A11-TB01-201201 — Lab Sample ID: 680-192276-12

Date Collected: 12/01/20 08:00 **Matrix: Water**
Date Received: 12/04/20 11:00

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	0.47	J	0.58	0.29	ug/L			12/08/20 20:07	1

Default Detection Limits

Client: CDM Smith, Inc.
Job ID: 680-192276-1
Project/Site: Methane Analysis - SE Rockford Area 11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	RL	MDL	Units
Methane	0.58	0.29	ug/L
Methane (TCD)	390	39	ug/L